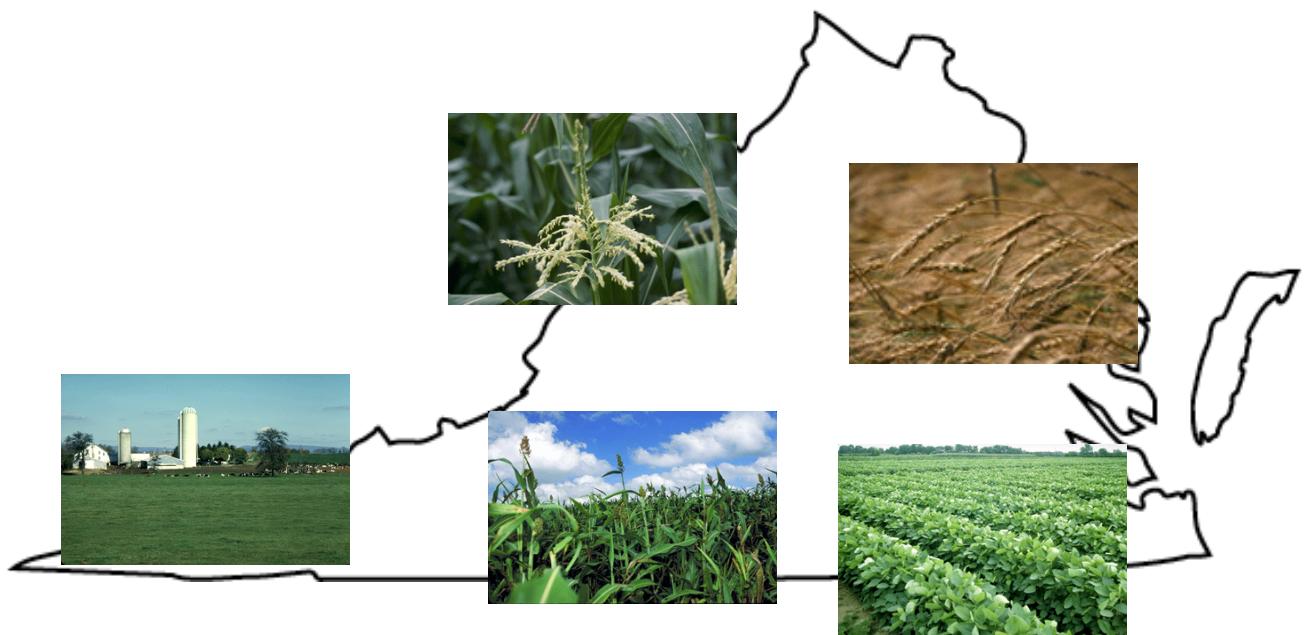


# VALUES GUIDEBOOK



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## **Table 1. Soil Characteristics For Soil Management Groups**

The following summaries describe the general soil characteristics that are related to crop production. The purpose of this write-up is to focus on the common soil feature(s) of the management groupings that relate to management and productivity. The format includes the following soil characteristics:

- Regional occurrence
- Parent material
- Landscape position or influence
- Solum thickness
- Dominant profile feature, texture or other feature
- Plant available water supplying capacity
- Internal soil drainage

(A) The soils in this grouping occur over several physiographic provinces, have formed in alluvial parent materials, and are on gently sloping landscapes of flood plains or stream terraces whose watersheds originate west of the Blue Ridge. They are deep, medium textured soils throughout, with high water supplying capacities, and are well drained.

(B) Soils formed from alluvium within the Coastal Plain region and are associated with stream and river terraces. They are deep soils, with loamy textures throughout, have high water supplying capacities, and are well to moderately well drained.

(C) Soils formed from alluvium or coastal plains sediments, on terraces, levees, and broad coastal plain landscapes. They have loamy to silty textures throughout, have high water supplying capacities, and are poorly drained unless artificial drainage is provided which increases their productive capacity significantly.

(D) Soils which occur in the Northern Piedmont region on upland landscapes and have formed from a variety of residual parent materials. They are moderately deep soils, with fine loamy textures, moderately high water supplying capacities, and are well to moderately well drained.

(E) Soils formed from sandy coastal plain sediments, on low lying terraces, depressions, or flats where surface drainage is restricted. They are deep soils with coarse loamy textures throughout, commonly have high water tables even during some parts of the growing season, and thus are high water suppliers, and are poorly drained.

(F) Soils formed in coarse textured coastal plain sediments, in low lying landscape positions and are underlain by stratified loamy sediments. They are deep soils, with coarse loamy textures throughout, are high to moderately high water suppliers, and are somewhat poorly drained.

(G) Soils occurring from the Piedmont region westward, formed in locally transported, medium textured sediments of either colluvial or alluvial origin that overlay a wide range of residual materials. Located in landscape positions ranging from foot and toe slopes, to the heads of drainage ways, to depressions, to narrow upland drainage ways. They are deep soils with silty to loamy upper subsoils underlain with clayey to stony materials. They have moderately high water supplying capacities and range from moderately well to somewhat poorly drained.

(H) Soils located predominantly in the western Piedmont and mountainous regions and formed in alluvium along streams or terraces. They are moderately deep, have silty to clay loam subsurface textures, and are moderately high water suppliers. They are somewhat poorly to poorly drained unless artificial drainage is provided which increases their productive capacity significantly.

(I) Soils formed from alluvium along floodplains in the Coastal Plain and Piedmont provinces. As a result they are somewhat prone to hazards of flooding. They are deep soils with predominantly clay loam subsurface horizons, moderately high water suppliers, and are somewhat poorly drained.

(J) Soils formed from coastal plain sediments in low-lying landscape positions. They are deep soils with loamy subsurface horizons, moderately high water supplying capacity, and range from somewhat poorly to moderately well drained.

(K) Soils located mainly within the Coastal Plain region, forming from mixed marine and fluvial sediments on landscapes that range from stream terraces to broad, nearly level interfluves in uplands. They are deep soils with loamy surfaces and clay loam to clayey subsurfaces, are moderate water suppliers, and are somewhat poorly drained.

(L) Soils common to the Piedmont and mountainous regions where they have formed from old transported deposits of alluvium or colluvium. They are common on stream terraces, foot slopes, and older, elevated, upland landscapes that were once stream terraces. They are deep soils with medium textured surfaces, more clayey subsurfaces, and commonly with gravels and rounded stones. They are moderate to high water suppliers and usually are well drained.

(M) Soils found mostly in the mountainous regions forming in material weathered from carbonate rocks. They are on upland summit and sideslope positions. They are deep soils with reddish brown, clayey subsurface horizons, sometimes with coarse fragments. They are moderate water suppliers, unless coarse fragment contents are significantly high, and they are well drained.

(N) Soils located on dissected uplands in the Piedmont region, and have formed from residuum ranging from weathered mafic rocks to triassic sediments. They are deep to moderately deep, have medium textured surfaces with reddish brown clayey subsurfaces, are moderate water suppliers, and are well drained.

(O) Soils formed from transported materials ranging from mountain colluvium to old alluvium on dissected uplands of the Piedmont and mountainous regions and as old elevated river terrace deposits. They range from deep to shallow, have very dark red clayey subsurface horizons, some may have significant coarse fragments, are moderate water suppliers, and are well drained.

(P) Soils formed in alluvium or colluvium and are in low lying terrace positions. All the physiographic provinces in Virginia are represented by one or more soils of this group. They are deep soils with clayey subsurface horizons and are moderate to high water suppliers. They are somewhat poorly drained unless artificial drainage is provided which increases the productive potential significantly.

(Q) Soils located on the upper Coastal Plains on the most stable parts of the nearly level upland landscape. They have formed in very old coastal plain sediments. They are deep soils with sandy surfaces and clayey to sandy clay subsurfaces with plinthite and/or a fragipan in the lower subsoil which may inhibit root growth. They are moderate to moderately low water suppliers when the plinthite or fragipan is nearer the surface. They are moderately well to somewhat poorly drained

depending on the depth to the plinthite or pan layer.

(R) Soils located on the gently sloping uplands of the Coastal Plain and have formed from marine sediments. They are deep soils with sandy loam surfaces, reddish yellow clayey to clay loam subsurfaces with some mottles in the lower part, are moderate water suppliers, and are well to moderately well drained.

(S) Soils found on gently sloping coastal plain uplands, are moderately deep, and have formed from loamy coastal plain sediments. They have fine loamy textures in the subsoil with moderate to high water supplying capacities, and are well to moderately well drained.

(T) Soils located on uplands and stream terraces in the coastal plains, are deep and have formed from loamy coastal plain sediments. They have fine loamy subsurface textures, usually underlain by coarser sediments, are moderate water suppliers, and are well drained.

(U) Includes soils in the mountainous and Piedmont regions that are moderately deep to shallow, and have formed from a variety of residual parent materials ranging from triassic sediments to sandstone, shales, and limestone, to colluvium from these materials. They commonly have fine loamy subsurface textures, commonly have coarse fragments to one third the soil volume, and as a result, are moderate to moderately low water suppliers. They are well to moderately well drained.

(V) Soils found on upland landscapes in the Piedmont, are moderately deep, and have formed from saprolites derived from a variety of parent materials ranging from slates, to granites, gneisses, schists, and more basic granitic rocks. They have clayey subsurface horizons, are moderate water suppliers, and are well drained.

(W) Includes soils in the mountainous and Piedmont regions, on stream terrace or footslope positions, and are formed from mixed colluvium. They have fragipans within the upper three feet of soil, have loamy subsurface horizons, commonly with accompanying coarse fragments. As a result they are moderately low water suppliers, and range from moderately well to somewhat poorly drained.

(X) Soils located on upland landscapes in the Piedmont region, are moderately deep, and are derived from a variety of residual materials including slates, granites, gneisses, and schists. They have clayey subsurface horizons, sometimes with coarse fragments or gravels, are moderate water suppliers, and are well to moderately well drained.

(Y) Soils representing upland landscapes in both mountainous and Piedmont regions. They range from shallow to moderately deep and have formed from the residuum of weathered limestones, shales, or other carbonate influenced rocks. They have clayey subsurface horizons, sometimes with coarse fragments, and are moderate to low water suppliers where shallow to bedrock. They are mostly well drained.

(Z) Soils formed in alluvium or colluvium and are in low lying terrace positions. All the physiographic provinces in Virginia are represented by one or more soils of this group. They are deep soils with clayey subsurface horizons, are moderately high water suppliers, and are somewhat poorly drained.

(AA) Upland soils, formed from a variety of sediments with the resulting soils ranging from deep

to shallow. They have clayey subsurface horizons, sometimes with coarse fragments, and as a result are moderately low in water supplying capacity. They range from somewhat poorly to moderately well drained.

(BB) Soils representing upland, terrace, or footslope landscapes in the western mountains, Piedmont, and Coastal Plains. The soils have formed from a variety of parent materials including colluvium, alluvium, and limestone residuum. The soils have fragipans that underlie silty to loamy subsurface horizons. sometimes with coarse fragments. The fragipans limit the rooting zone, thus, these soils are low to moderately low water suppliers. They are generally somewhat poorly drained.

(CC) The soils in this diverse group occur across the Piedmont and mountainous regions. They are formed from a range of parent materials that include alluvium, colluvium, and loamy saprolites. They are represented by a variety of landscapes including uplands, stream terraces and colluvial positions to bottomlands. The common soil features are moderately deep sola, clayey skeletal to coarse loamy subsurface horizons, some with as much as 70% coarse fragments, and have moderately low water supplying capacities. They are well drained.

(DD) This group of soils in the Coastal Plain have formed from loamy coastal plane sediments and local alluvium. They formed on gently sloping uplands and stream terraces. They are moderately deep soils with predominantly coarse loamy subsurface horizons, and some have arenic or very thick sandy surfaces. They have moderately low, water supplying capacities and are excessively drained.

(EE) Coastal Plains soils formed in loamy sediments, on low lying landscape positions. They are deep soils with coarse loamy to sandy subsurface horizons. Water tables are usually high in these soils during some part of the year yet the soil textures are very sandy. The drainage is poor to very poor on these soils.

(FF) Soils represented by this group extend across the Piedmont to the mountainous provinces and have formed in residual parent materials ranging from sandstone, shales, and slates, to loamy granitic saprolites, and mountain colluvium. They are on steeply dissected uplands and mountain side slopes. They are moderately shallow soils , mostly with loamy skeletal subsurface horizons that may contain 80 %, or more, coarse fragments. As a result the water supplying capacity of the soils is low to very low. The soils are well to moderately well drained.

(GG) The soils in this group of Piedmont and mountainous soils formed from cherty limestone or other residuum. They are on ridge top and side slope positions and are deep to moderately deep soils. They have loamy skeletal subsurface horizons, usually with greater than 60 % coarse fragments, are low water suppliers and are well drained.

(HH) All physiographic provinces of Virginia are represented by one or more soils from this group. They formed from loamy sediments in floodplain positions in the mountains and Piedmont to finer textured sediments in the Coastal Plain. They are moderately deep soils with fine loamy or clayey subsurface textures, have moderate water supplying capacities, and range from somewhat poorly to moderately well drained.

(II) All physiographic provinces of Virginia are represented by one or more soils from this group. The common feature is that all have formed from sandy parent materials within the Coastal Plain, or from local alluvium or colluvium of sandy origin. They range from deep, in Coastal Plain from

alluvial materials, to shallow in upland positions in the mountainous and Piedmont region. They are sandy textured throughout, with little horizonation, are low to very low in water supply, and are well to moderately well drained.

(JJ) The soils in this group are from either the Piedmont or mountainous regions and have formed from a wide variety of residual parent materials ranging from sandstones, shales, and limestones, to triassic materials, phillites, and granite saprolites or schists. They are shallow soils, predominantly with loamy skeletal textures throughout, ranging from 30 to 70 % coarse fragments. They are very low water suppliers and are well drained.

(KK) Soils in this group located predominantly in the Piedmont region and have formed from a variety of residual materials including triassic sediments, residuum from basic rocks, and other clayey sediments. They are moderately deep soils with clayey textured subsurface horizons, commonly with large components of high shrink-swell clays. They are moderate water suppliers and range from moderately well to somewhat poorly drained.

(LL) Soils found mostly in the Coastal Plain region, have formed from clayey sediments or formed from saprolites over basic rocks, and are on low coastal plain landscapes or gently sloping piedmont uplands. They are deep soils with clayey subsurface textures throughout. They are moderate water suppliers, and are somewhat poorly to poorly drained.

(MM) Soils located on floodplains in the Coastal Plain, formed from loamy sediments, flood frequently, have moderate to high water supplying capacity and are poorly drained.

(NN) These are the undrained soils that are listed in group "H". They are predominantly in the mountainous and western Piedmont region and have formed in alluvium along streams or on terraces. They are moderately deep, have silty to clay loam subsurface textures, are moderately high water suppliers, and are somewhat poorly to poorly drained.

(OO) These are the undrained soils that are listed in group "C". They are formed from alluvium or coastal plain sediments, on terraces, levees, and broad nearly level landscapes in the Coastal Plain. They have loamy to silty textures throughout, have high water supplying capacities, and are poorly drained.

(PP) Soils found within the Coastal Plain, and are represented by the marshes and tidal wetlands. They formed in depressions, tidal basins, tidal flats, and other ponded areas. Some have organic horizons, some have clayey mineral horizons, and some have sulfidic materials. They have water tables at or near the soil surface, and are saturated most of the time.

(QQ) The soils in this group represent the coastal sand dunes of the tidewater area. They are deep, extremely sandy, have low water supplying capacity, and are excessively drained.

**Table 2 . Soil Management Groups and Productivity Estimates**

SOIL MANAGEMENT GROUP	SOILS	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
			--- YIELD POTENTIAL, Bu/A ---					
A *	Bermudian, Buckton, Chagrin, Chagrin variant, Codorus, Codorus variant, Comus, Congaree, Elk, French, Greendale, Grigsby, Huntington, Lindsde, Lobdell, Margo, Massanetta, Nolin, Pope, Ross, Rowland, Staser, Suches, Tioga, Tuckahoe, Weaver, Wheeling	160	50	40	64	80	100	115
B	Altavista, Delanco, McQueen, Pamunkey, Pamunkey variant, Sequatchie, State (Mainland), Wickham, Wickham variant	160	50	40	64	80	100	115
C (DRAINED)	Acredale, Aden, Bayboro, Bether, Bladen, Cape Fear, Chapanoke, Chatuge, Daleville, Deloss, Elkton, Hyde, Johns, Johns variant, Kinkora, Kinston, Leaf, Lumbee, Lumbee variant, Meggett, Myatt, Myatt variant, Orrville, Orrville variant, Othello, Pantego, Pasquotank, Pooler variant, Portsmouth, Rains, Tomotley, Toxaway, Wahee, Weeksville, Yemassee	150	45	40	56	70	70	88
D	Chester, Chester Loam, Fairfax, Manassas, Myersville, Purcellville, Sudley	150	45	40	64	80	100	115
E	Alticrest, Barclay, Dragston, Fallsington, Lynchburg, Nimmo, Osier, Pocomoke, Torhunta, Weston	140	40	34	64	80	100	115
F	Iuka, Linden, Munden, Nansemond, Stough	140	40	34	64	80	100	115
G *	Abell, Abell variant, Cotaco, Cotaco variant, Duffield, Emory, Meadowville, Meadowville variant, Murrill, Riverview, Seneca, Shouns, Slabtown, Starr, Timberville, Timberville variant, Tusquitee	140	40	34	64	80	100	115
H * (DRAINED)	Dunning, Lickdale, Melvin, Newark, Newark variant, Philo, Purdy, Roanoke	140	40	34	48	60	60	75
I	Bowmansville, Cartecay, Chenneby, Chewacla, Mantachie, Monacan	140	40	34	64	80	100	115
J	Bertie, Bleakhill, Bolling, Bolling variant, Goldsboro, Izagora, Mount Lucas, Woodstown, Wrightsboro	130	40	32	64	80	100	115
K	Ackwater, Dogue, Duplin, Keyport, Marumsco, Mattapex, Slagle, Tetotum, Tetotum variant, Yeopim, Zoar	130	40	32	64	80	100	115

SOIL MANAGEMENT GROUP	SOILS	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
--- YIELD POTENTIAL, Bu/A ---								
L *	Allegheny, Birdsboro, Clifton, Edneytown, Elsinboro, Evard, Hayter, Masada, Shelocta, Shelocta variant, Thurmont, Unison, Unison variant, Waynesboro	130	40	32	64	80	100	115
M *	Athol, Bolton, Decatur, Edom, Elliber, Frederick, Frederick/Lodi, Groseclose, Guernsey, Hagerstown, Hublersburg, Lodi, Lowell, Maury, Pisgah, Poplimento, Swimley, Vertrees	130	40	32	64	80	100	115
N	Cullen, Davidson, Eubanks, Fauquier, Glenelg(BRH), Lloyd, Lloyd variant, Minnieville, Montalto, Rabun, Rapidan	130	40	32	64	80	100	115
O	Appomattox, Austinville, Braddock, Dyke, Hiwassee, Hiwassee variant, Nolichucky, Shenval, Starr-Dyke, Turbeville	130	40	32	64	80	100	115
P * (DRAINED)	Augusta, Augusta variant, Dunbar, Fork, Fork variant, McGary, Tygart	130	40	32	56	70	70	88
Q	Atlee, Dothan, Freemanville, Montross, Tifton, Varina, Vaucluse	120	40	30	56	70	70	88
R	Aycock, Bama, Cahaba, Emporia, Faceville, Granville, Marlboro, Matapeake, Mattaponi, Norfolk, Orangeburg, Quantico	120	40	30	56	70	70	88
S	Kalmia, Kempsville, Ruston	120	40	30	56	70	70	88
T	Aura, Bojac(ES, VA Beach, Ches.), Dumfries, Edneyville, Eunola, Gritney, Marr, Sassafras, State (ES), Suffolk	110	40	30	56	70	70	88
U *	Arcola, Bookwood, Brecknock, Bucks, Clymer, Faywood, Fletcher, Frankstown, Gilpin, Gilpin variant, Glenelg(NV), Halewood, Jefferson, Jefferson variant, Leck Kill, Panorama, Rayne, Sequoia, Totier, Trappist, Webbtown, Westmoreland, Whiteford	110	40	30	56	70	70	88
V	Appling, Brockroad, Buckhall, Chesterfield, Gundy, Gunstock, Hanceville, Herndon, Legore, Mayodan, Mecklenburg, Mecklenburg variant, Nason, Spotsylvania, Watauga Wedowee	100	35	25	56	70	70	88
W *	Aldino, Ardilla, Clarksburg, Ernest, Glenville, Laidig, Landisburg, Malbis, Marbie, Meckesville, Monongahela, Raritan, Readington, Savannah, Trego	100	35	25	40	50	50	63

SOIL MANAGEMENT GROUP	SOILS		(RV, High) CORN	FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
--- YIELD POTENTIAL, Bu/A ---									
X	Catharpin, Cecil, Culpeper, Elioak, Georgeville, Grover, Gwinnett variant, Hayesville, Madison, Pacolet, Rion, Stoneville, Tatum, Wadesboro, Yadkin		100	35	25	56	70	70	88
Y *	Bland, Caneyville, Carbo, Dulles, Endcav, Enon, Fluvanna, Oaklet, Pagebrook, Vance, Zion, Zion variant		100	35	25	48	60	60	75
Z * (UNDRAINED)	Augusta, Augusta variant, Dunbar, Fork, Fork variant, McGary, Tygart		100	35	25	40	50	50	63
AA	Angie, Angie variant, Caroline, Christian, Christiana, Lunt		100	35	25	56	70	70	88
BB *	Airmont, Beltsville, Belvoir, Bourne, Bourne variant, Buchanan, Burkettown, Burrowsville, Calverton, Captina, Colfax, Colfax variant, Goldvein, Hoadley, Leadvale, Neabsco, Nicholson, Nixa, Rohrersville, York		85	25	18	48	60	60	75
CC *	Craigsville, Durham, Edgehill, Edgehill variant, Hartsells, Hawksbill, Lewisburg, Matneflat, Rigley, Sherando		85	25	18	56	70	70	88
DD *	Bojac(Mainland, excluding VA Beach & Ches.), Bonneau, Conetoe, Kenansville, Kenansville variant, Lucy, McLaurin, Occoquan, Pocalla, Remlik, Rumford, Saffell, Uchee, Wagram		85	25	18	56	70	70	88
EE	Arapahoe, Bibb, Chavies, Chavies variant, Chipley, Corolla, Klej, Lakehurst, Pactolus, Plummer, Seabrook, Seagate, Woodington		85	25	18	48	60	60	75
FF *	Alamance, Ashlar, Ayersville, Blairton, Brandywine, Brentsville, Burton, Cardiff, Dekalb, Drall, Gaila, Gainesboro, Hartleton, Lansdale, Laroque, Lew, Lily, Louisburg, Manor, Needmore, Oakhill, Oatlands, Penn, Poindexter, Poindexter variant, Porters, Rushtown, Sekil, Spivey, Stumptown, Sweetapple, Wateree		85	25	18	48	60	60	75
GG	Bailegap, Clarksville, Grimsley, Parker, Poynor, Summers, Weverton		85	25	18	40	50	50	63
HH *	Atkins, Baile, Blago, Craven, Hatboro, Nevarc, Partlow, Peawick, Toddstav, Worsham, Worsham variant		85	25	18	48	60	60	75
II *	Alaga, Biltmore, Buncombe, Catpoint, Evesboro, Galestown, Lakeland, Lakin, Leetonia, Leon, Lewisberry, Millrock, Molena, Ochlockonee, Ochlockonee variant, Schaffenaker, Tarboro, Toccoa, Wakulla, Westphalia		65	20	15	48	60	60	75

SOIL MANAGEMENT GROUP	SOILS	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
--- YIELD POTENTIAL, Bu/A ---								
JJ *	Albemarle, Ashe, Berks, Brevoort, Buckingham, Calvin, Cataska, Catlett, Catoctin, Chilhowie, Clearbrook, Corydon, Dandridge, Goldston, Hazel, Hazleton, Klineville, Lehigh, Litz, Louisa, Louisa variant, Manteo, Misenheimer, Nestoria, Newbern, Opequon, Pinkston, Ramsey, Reaville, Spray, Spriggs, Steinsburg, Talladega, Tallapoosa, Tallapoosa variant, Wallen, Watt, Watt variant, Weikert, Wilkes, Wurno	65	20	15	40	50	50	63
KK	Albano, Creedmoor, Creedmoor variant, Haymarket, Helena, Iredell, Iredell variant, Jackland, Kelly, Leaksville, Library, Orange, Orange variant, Orenda, Sedgefield, Susquehanna, Sycoline, Trenholm, White Store, White Store variant	65	20	15	24	30	30	38
LL	Chastain, Chickahominy, Coxville, Croton, Elbert, Elbert variant, Evansham, Forestdale, Hollywood, Lenoir, Lignum, Newflat, Okeetee, Pouncey, Robertsville, Stanton, Waxpool	65	20	15	24	30	30	38
MM	Muckalee, Wehadkee	65	20	15	24	30	30	38
NN * (UNDRAINED)	Dunning, Lickdale, Melvin, Newark, Newark variant, Philo, Purdy, Roanoke	65	20	15	24	30	30	38
OO (UNDRAINED)	Acredale, Aden, Bayboro, Betheria, Bladen, Cape Fear, Chapanoke, Chatuge, Daleville, Deloss, Elkton, Hyde, Johns, Johns variant, Kinkora, Kinston, Leaf, Lumbee, Lumbee variant, Meggett, Myatt, Myatt variant, Orrville, Orrville variant, Othello, Pantego, Pasquotank, Pooler variant, Portsmouth, Rains, Tomotley, Toxaway, Wahee, Weeksville, Yemassee	65	20	15	24	30	30	38
PP	Argent, Axis, Backbay, Belhaven, Bohicket, Camocca, Carteret, Chincoteague, Dawhoo, Dawhoo variant, Dorovan, Featherstone, Johnston, Lanexa, Levy, Magotha, Mattamuskeet, Mattan, Nawney, Pamlico, Pocatly, Pungo, Rappahanock	65	20	15	24	30	30	38
QQ	Assateague, Duckston, Fisherman, Fripp, Newhan	65	20	15	24	30	30	38

\* Length of growing season for some soils in this group may not be favorable for reaching the yield goal for soybean.

**Table 3. Soil Productivity Groups vs. Soil Management Groups for Corn Grain**

Soil Management Groups	Soil Productivity Groups	Realistic Yield, Bu/A
A, B	Ia	160
C, D	Ib	150
E, F, G, H, I	IIa	140
J, K, L, M, N, O, P	IIb	130
Q, R, S	IIIa	120
T, U	IIIb	110
V, W, X, Y, Z, AA	IVa	100
BB, CC, DD, EE, FF, GG, HH	IVb	85
II, JJ, KK, LL, MM, NN, OO, PP, QQ	V	65

**Table 4. Soil Productivity Groups vs. Soil Management Groups for Intensive Wheat**

Soil Management Groups	Soil Productivity Groups	Realistic Yield, Bu/A
A, B, D, E, F, G, I, J, K, L, M, N, O	I	80
C, P, Q, R, S, T, U, V, X, CC, DD	II	70
H, Y, BB, EE, FF, HH, II	III	60
W, Z, GG, JJ	IV	50
KK, LL, MM, NN, OO, PP, QQ	V	30

**Table 5. Soil Productivity Groups vs. Soil Management Groups for Canola**

Soil Management Groups	Soil Productivity Groups	Realistic Yield, Bu/A
A, B, C, D, F	I	70 +
J, K, L, M, N, O, Q, R, S, T, U	II	60 - 70
V, X, Y, DD	III	50 - 60
G, W, Z, BB, CC, FF, GG, II, JJ	IV	40 - 50
C, E, P, AA	Va	*
H, I, EE, HH, KK, LL, MM, NN, OO, PP, QQ	Vb	**

\* These are somewhat poorly drained soil. In some years, excess water will result in serious stand and subsequent yield reductions. In years when this is not a problem, yields will be good.

\*\* Not suited, too wet.

**Table 6. Soil Productivity Groups vs. Soil Management Groups for Alfalfa and Alfalfa-Orchardgrass Hay**

Soil Management Groups	Soil Productivity Groups	Realistic Yield, T/A
A, D, M	I	> 6 T/A
B, G, N, O	II	4-6 T/A
F, K, L, R, U, V, X	III	<4 T/A
C, E, H, I, J, EE, HH, S, T, DD, GG, II, Q, W, BB, Y, AA, KK, CC, FF, JJ	IV - V	Not Suited: Too Wet Droughty Fragipans Claypan Shallow Profiles

**Table 7. Soil Productivity Groups vs. Soil Management Groups for Tall Grass-Clover Hay**

Soil Management Groups	Soil Productivity Groups	Realistic Yield, Bu/A
A, B, C, D, G, I, J, K	I	>4.0 T/A
E, F, L, M, N, O, R, U	II	3.5-4.0 T/A
Q, S, T, V, X, Y, BB, CC, DD, FF, GG	III	3.0-3.5 T/A
H, P, W, AA, HH, JJ, KK, LL, MM	IV	<3.0 T/A
Z, EE, NN, OO, PP, II, QQ	---	Not Suited: Too Wet Too Dry

**Table 8. Soil Productivity Groups vs. Carrying Capacity for Pasture**

Soil Productivity Groups	Acres per Animal Unit* Required for April 1-October 31
I	1.0
II	1.1-1.5
III	1.6-3.0
IV, V	3.1-6.5

\* Animal Unit (AU) - one 1000 lb. cow and her calf  
or two 500 lb. steers  
or five ewes with lambs

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Abell	G	IIa	IIa	I	II	IV	II	I
Abell variant	G	IIa	IIa	I	II	IV	II	I
Ackwater	K	IIb	IIb	I	II	II	III	I
Acredale (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Acredale (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Aden (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Aden (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Airmont	BB	IVb	IVb	III	IV	IV	NS*	III
Alaga	II	V	V	III	V	IV	NS*	NS*
Alamance	FF	IVb	IVb	III	IV	IV	NS*	III
Albano	KK	V	V	V	V	Vb	NS*	IV
Albemarle	JJ	V	V	IV	V	IV	NS*	IV
Aldino	W	IVa	IVa	IV	III	IV	NS*	IV
Allegheny	L	IIb	IIb	I	II	II	III	II
Altavista	B	Ia	Ia	I	Ia	I	II	I
Alticrest	E	IIa	IIa	I	II	Va	NS*	II
Angie	AA	IVa	IVa	II	III	Va	NS*	IV
Angie variant	AA	IVa	IVa	II	III	Va	NS*	IV
Appling	V	IVa	IVa	II	III	III	III	III
Appomattox	O	IIb	IIb	I	II	II	II	II
Arapahoe	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Arcola	U	IIIb	IIIb	II	II	II	III	II
Ardilla	W	IVa	IVa	IV	IIIa	IV	NS*	IV
Argent	PP	V	V	V	V	Vb	NS*	NS*
Ashe	JJ	V	V	IV	V	IV	NS*	IV
Ashlar	FF	IVb	IVb	III	IV	I	NS*	III
Assateague	QQ	V	V	V	V	Vb	NS*	NS*
Athol	M	IIb	IIb	I	II	II	I	II
Atkins	HH	IVb	IVb	III	IV	Vb	NS*	IV
Atlee	Q	IIIa	IIIa	II	II	II	NS*	III
Augusta (drained)	P	IIb	IIb	II	II	Va	NS*	III
Augusta (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Augusta variant (drained)	P	IIb	IIb	II	II	Va	NS*	III
Augusta variant (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Aura	T	IIIb	IIIb	II	II	II	NS*	III
Austinville	O	IIb	IIb	I	II	II	II	II
Axis	PP	V	V	V	V	Vb	NS*	NS*
Aycock	R	IIIa	IIIa	II	II	II	III	II
Ayersville	FF	IVb	IVb	III	IV	IV	NS*	III
Backbay	PP	V	V	V	V	Vb	NS*	NS*
Baile	HH	IVb	IVb	III	IV	Vb	NS*	IV
Bailegap	GG	IVb	IVb	IV	IV	IV	NS*	III
Bama	R	IIIa	IIIa	II	II	II	III	II
Barclay	E	IIa	IIa	I	II	Va	NS*	II
Bayboro (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Bayboro (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Belhaven	PP	V	V	V	V	Vb	NS*	NS*
Beltsville	BB	IVb	IVb	III	IV	IV	NS*	III
Belvoir	BB	IVb	IVb	III	IV	IV	NS*	III
Berks	JJ	V	V	IV	V	IV	NS*	IV
Bermudian	A	Ia	Ia	I	Ia	I	I	I

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Bertie	J	IIb	IIb	II	II	II	NS*	I
Bethera (drained)	C	Ib	Ib	I	Ib	I	NS*	I
Bethera (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Bibb	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Biltmore	II	V	V	III	V	IV	NS*	NS*
Birdsboro	L	IIb	IIb	I	II	II	III	II
Bladen (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Bladen (undrained)	OO	V	V	V	V	Vb	NS*	NS
Blago	HH	IVb	IVb	III	IV	Vb	NS*	IV
Blairton	FF	IVb	IVb	III	IV	IV	NS*	III
Bland	Y	IVa	IVa	III	III	III	NS*	III
Bleakhill	J	IIb	IIb	I	II	II	NS*	I
Bohicket	PP	V	V	V	V	Vb	NS*	NS*
Bojac (ES, VA Beach, Ches.)	T	IIIb	IIIb	II	II	II	NS*	III
Bojac (Mainland, excluding VA Beach & Ches.)	DD	IVb	IVb	II	IV	III	NS*	III
Bolling	J	IIb	IIb	I	II	II	NS*	I
Bolling variant	J	IIb	IIb	I	II	II	NS*	I
Bolton	M	IIb	IIb	I	II	II	I	II
Bonneau	DD	IVb	IVb	II	IV	III	NS*	III
Bookwood	U	IIIb	IIIb	II	II	II	III	II
Bourne	BB	IVb	IVb	III	IV	IV	NS*	III
Bourne variant	BB	IVb	IVb	III	IV	IV	NS*	III
Bowmansville	I	IIa	IIa	I	II	Vb	NS*	I
Braddock	O	IIb	IIb	I	II	II	II	II
Brandywine	FF	IVb	IVb	III	IV	IV	NS*	III
Brecknock	U	IIIb	IIIb	II	II	II	III	II
Bremo	JJ	V	V	IV	V	IV	NS*	IV
Brentsville	FF	IVb	IVb	III	IV	IV	NS*	III
Brockroad	V	IVa	IVa	II	III	III	III	III
Buchanan	BB	IVb	IVb	III	IV	IV	NS*	III
Buckhall	V	IVa	IVa	II	III	III	III	III
Buckingham	JJ	V	V	IV	V	IV	NS*	IV
Bucks	U	IIIb	IIIb	II	II	II	III	II
Buckton	A	Ia	Ia	I	Ia	I	I	I
Buncombe	II	V	V	III	V	IV	NS*	NS*
Burketown	BB	IVb	IVb	III	IV	IV	NS*	III
Burrowsville	BB	IVb	IVb	III	IV	IV	NS*	III
Burton	FF	IVb	IVb	III	IV	IV	NS*	III
Cahaba	R	IIIa	IIIa	II	II	II	III	II
Calverton	BB	IVb	IVb	III	IV	IV	NS*	III
Calvin	JJ	V	V	IV	V	IV	NS*	IV
Camocca	PP	V	V	V	V	Vb	NS*	NS*
Caneyville	Y	IVa	IVa	III	III	III	NS*	III
Cape Fear (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Cape Fear (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Captina	BB	IVb	IVb	III	IV	IV	NS*	III
Carbo	Y	IVa	IVa	III	III	III	NS*	III
Cardiff	FF	IVb	IVb	III	IV	IV	NS*	III
Caroline	AA	IVa	IVa	II	III	Va	NS*	IV
Cartecay	I	IIa	IIa	I	II	Vb	NS*	I

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Carteret	PP	V	V	V	V	Vb	NS*	NS*
Cataksa	JJ	V	V	IV	V	IV	NS*	IV
Catharpin	X	IVa	IVa	II	III	III	III	II
Catlett	JJ	V	V	IV	V	IV	NS*	IV
Catoctin	JJ	V	V	IV	V	IV	NS*	IV
Catpoint	II	V	V	III	V	IV	NS*	NS*
Cecil	X	IVa	IVa	II	III	III	III	II
Chagrin	A	Ia	Ia	I	Ia	I	I	I
Chagrin variant	A	Ia	Ia	I	Ia	I	I	I
Chapanoke (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Chapanoke (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Chastain	LL	V	V	V	V	Vb	NS*	IV
Chatuge (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Chatuge (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Chavies	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Chavies variant	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Chenneby	I	Ila	Ila	I	II	Vb	NS*	I
Chester	D	Ib	Ib	I	Ib	I	I	I
Chesterfield	V	IVa	IVa	II	III	III	III	III
Chester Loam	D	Ia	Ia	I	Ia	I	I	I
Chewacla	I	Ila	Ila	I	II	Vb	NS*	I
Chickahominy	LL	V	V	V	V	Vb	NS*	IV
Chilhowie	JJ	V	V	IV	V	IV	NS*	IV
Chincoteague	PP	V	V	V	V	Vb	NS*	NS*
Chipley	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Christian	AA	IVa	IVa	II	III	Va	NS*	IV
Christiana	AA	IVa	IVa	II	III	Va	NS*	IV
Clarksburg	W	IVa	IVa	IV	III	IV	NS*	IV
Clarksville	GG	IVb	IVb	IV	IV	IV	NS*	III
Clearbrook	JJ	V	V	IV	V	IV	NS*	IV
Clifton	L	IIb	IIb	I	II	II	III	II
Clymer	U	IIIb	IIIb	II	II	II	III	II
Codorus	A	Ia	Ia	I	Ia	I	I	I
Codorus variant	A	Ia	Ia	I	Ia	I	I	I
Colfax	BB	IVb	IVb	III	IV	IV	NS*	III
Colfax variant	BB	IVb	IVb	III	IV	IV	NS*	III
Comus	A	Ia	Ia	I	Ia	I	I	I
Conetoe	DD	IVb	IVb	II	IV	III	NS*	III
Congaree	A	Ia	Ia	I	Ia	I	I	I
Corolla	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Corydon	JJ	V	V	IV	V	IV	NS*	IV
Cotaco	G	Ila	Ila	I	II	IV	II	I
Cotaco variant	G	Ila	Ila	I	II	IV	II	I
Coxville	LL	V	V	V	V	Vb	NS*	IV
Craigsville	CC	IVb	IVb	II	IV	IV	NS*	III
Craven	HH	IVb	IVb	III	IV	Vb	NS*	IV
Creedmoor	KK	V	V	V	V	Vb	NS*	IV
Creedmoor variant	KK	V	V	V	V	Vb	NS*	IV
Croton	LL	V	V	V	V	Vb	NS*	IV
Cullen	N	IIb	IIb	I	II	II	II	II

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Culpeper	X	IVa	IVa	II	III	III	III	II
Daleville (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Daleville (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Dandridge	JJ	V	V	IV	V	IV	NS*	IV
Davidson	N	IIb	IIb	I	II	II	II	II
Dawhoo	PP	V	V	V	V	Vb	NS*	NS*
Dawhoo variant	PP	V	V	V	V	Vb	NS*	NS*
Decatur	M	IIb	IIb	I	II	II	I	II
Dekalb	FF	IVb	IVb	III	IV	IV	NS*	III
Delanco	B	Ia	Ia	I	Ia	I	II	I
Deloss (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Deloss (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Dogue	K	IIb	IIb	I	II	II	III	I
Dorovan	PP	V	V	V	V	Vb	NS*	NS*
Dothan	Q	IIb	IIb	II	II	II	NS*	III
Dragston	E	Ila	Ila	I	II	Va	NS*	II
Drall	FF	IVb	IVb	III	IV	IV	NS*	III
Duckston	QQ	V	V	V	V	Vb	NS*	NS*
Duffield	G	Ila	Ila	I	II	IV	II	I
Dulles	Y	IVa	IVa	III	III	III	NS*	III
Dumfries	T	IVa	IVa	II	II	II	NS*	III
Dunbar (drained)	P	IIb	IIb	II	II	Va	NS*	III
Dunbar (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Dunning (drained)	H	Ila	Ila	III	II	Vb	NS*	IV
Dunning (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Duplin	K	IIb	IIb	I	II	II	III	I
Durham	CC	IVb	IVb	II	IV	IV	NS*	III
Dyke	O	IIIb	IIIb	I	II	II	II	II
Edgehill	CC	IVb	IVb	II	IV	IV	NS*	III
Edgehill variant	CC	IVb	IVb	II	IV	IV	NS*	III
Edneytown	L	IIb	IIb	I	II	II	III	II
Edneyville	T	IIIb	IIIb	II	II	II	NS*	III
Edom	M	IIb	IIb	I	II	II	I	II
Elbert	LL	V	V	V	V	Vb	NS*	IV
Elbert variant	LL	V	V	V	V	Vb	NS*	IV
Elioak	X	IVa	IVa	II	III	III	III	II
Elk	A	Ia	Ia	I	Ia	I	I	I
Elkton (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Elkton (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Elliber	M	IIb	IIb	I	II	II	I	II
Elsinboro	L	IIb	IIb	I	II	II	III	II
Emory	G	Ila	Ila	I	II	IV	II	I
Emporia	R	IIIa	IIIa	II	II	II	III	II
Endcav	Y	IVa	IVa	III	III	III	NS*	III
Enon	Y	IVa	IVa	III	III	III	NS*	III
Ernest	W	IVa	IVa	IV	III	IV	NS*	IV
Eubanks	N	IIb	IIb	I	II	II	II	II
Eunola	T	IIIb	IIIb	II	II	II	NS*	III
Evansham	LL	V	V	V	V	Vb	NS*	IV
Evard	L	IIb	IIb	I	II	II	III	II
Evesboro	II	V	V	III	V	IV	NS*	NS*

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Faceville	R	IIIa	IIIa	II	II	II	III	II
Fairfax	D	Ib	Ib	I	II	I	I	I
Fallsington	E	IIa	IIa	I	II	Va	NS*	II
Fauquier	N	IIb	IIb	I	II	II	II	II
Faywood	U	IIIb	IIIb	II	II	II	III	II
Featherstone	PP	V	V	V	V	Vb	NS*	NS*
Fisherman	QQ	V	V	V	V	Vb	NS*	NS*
Fletcher	U	IIIb	IIIb	II	II	II	III	II
Fluvanna	Y	IVa	IVa	III	III	III	NS*	III
Forestdale	LL	V	V	V	V	Vb	NS*	IV
Fork (drained)	P	IIb	IIb	II	II	Va	NS*	III
Fork (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Fork variant (drained)	P	IIb	IIb	II	II	Va	NS*	III
Fork variant (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Frankstown	U	IIIb	IIIb	II	II	II	III	II
Frederick	M	IIb	IIb	I	II	II	I	II
Frederick/Lodi	M	IIb	IIb	I	II	II	I	II
Freemanville	Q	IIIa	IIIa	II	II	II	NS*	III
French	A	Ia	Ia	I	Ia	I	I	I
Fripp	QQ	V	V	V	V	Vb	NS*	NS*
Gaila	FF	IVb	IVb	III	IV	IV	NS*	III
Gainesboro	FF	IVb	IVb	III	IV	IV	NS*	III
Galestown	II	V	V	III	V	IV	NS*	NS*
Georgeville	X	IVa	IVa	II	III	III	III	II
Gilpin	U	IIIb	IIIb	II	II	II	III	II
Gilpin variant	U	IIIb	IIIb	II	II	II	III	II
Glenelg(BRH)	Z	IIb	IIb	I	II	II	II	II
Glenelg(NV)	U	IIb	IIb	II	II	II	III	II
Glenville	W	IVa	IVa	IV	III	IV	NS*	IV
Goldsboro	J	IIb	IIb	I	II	II	NS*	I
Goldston	JJ	V	V	IV	V	IV	NS*	IV
Goldvein	BB	IVb	IVb	III	IV	IV	NS*	III
Granville	R	IIIa	IIIa	II	II	II	III	II
Greendale	A	Ia	Ia	I	Ia	I	I	I
Grigsby	A	Ia	Ia	I	Ia	I	I	I
Grimsley	GG	IVb	IVb	IV	IV	IV	NS*	III
Gritney	T	IVa	IVa	II	II	II	NS*	III
Groseclose	M	IIb	IIb	I	II	II	I	II
Grover	X	IVa	IVa	II	III	III	III	II
Guernsey	M	IIb	IIb	I	II	II	I	II
Gundy	V	IVa	IVa	II	III	III	III	III
Gunstock	V	IVa	IVa	II	III	III	III	III
Gwinnett variant	X	IVa	IVa	II	III	III	III	II
Hagerstown	M	IIb	IIb	I	II	II	I	II
Halewood	U	IIIb	IIIb	II	II	II	III	II
Hanceville	V	IVa	IVa	II	III	III	III	III
Hartleton	FF	IVb	IVb	III	IV	IV	NS*	III
Hartsells	CC	IVb	IVb	II	IV	IV	NS*	III
Hatboro	HH	IVb	IVb	III	IV	Vb	NS*	IV
Hawksbill	CC	IVb	IVb	II	IV	IV	NS*	III
Hayesville	X	IVa	IVa	II	III	III	III	II

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Haymarket	KK	V	V	V	V	Vb	NS*	IV
Hayter	L	IIb	IIb	I	II	II	III	II
Hazel	JJ	V	V	IV	V	IV	NS*	IV
Hazleton	JJ	V	V	IV	V	IV	NS*	IV
Helena	KK	V	V	V	V	Vb	NS*	IV
Herndon	V	IVa	IVa	II	III	III	III	III
Hiwassee	O	IIb	IIb	I	II	II	II	II
Hiwassee variant	O	IIb	IIb	I	II	II	II	II
Hoadley	BB	IVb	IVb	III	IV	IV	NS*	III
Hollywood	LL	V	V	V	V	Vb	NS*	IV
Hublersburg	M	IIb	IIb	I	II	II	I	II
Huntington	A	Ia	Ia	I	Ia	I	I	I
Hyde (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Hyde (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Iredell	KK	V	V	V	V	Vb	NS*	IV
Iredell variant	KK	V	V	V	V	Vb	NS*	IV
Iuka	F	IIa	IIa	I	II	I	III	II
Izagora	J	IIb	IIb	I	II	II	NS*	I
Jackland	KK	V	V	V	V	Vb	NS*	IV
Jefferson	U	IIIb	IIIb	II	II	II	III	II
Jefferson variant	U	IIIb	IIIb	II	II	II	III	II
Johns (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Johns (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Johnston	PP	V	V	V	V	Vb	NS*	NS*
Johns variant (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Johns variant (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Kalmia	S	IIIa	IIIa	II	II	II	NS*	III
Kelly	KK	V	V	V	V	Vb	NS*	IV
Kempsville	S	IIIa	IIIa	II	II	II	NS*	III
Kenansville	DD	IVb	IVb	II	IV	III	NS*	III
Kenansville variant	DD	IVb	IVb	II	IV	III	NS*	III
Keyport	K	IIb	IIb	I	II	II	III	I
Kinkora (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Kinkora (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Kinston (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Kinston (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Klej	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Klinesville	JJ	V	V	IV	V	IV	NS*	IV
Laidig	W	IVa	IVa	IV	III	IV	NS*	IV
Lakehurst	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Lakeland	II	V	V	III	V	IV	NS*	NS
Lakin	II	V	V	III	V	IV	NS*	NS
Landisburg	W	IVa	IVa	IV	III	IV	NS*	IV
Lanexa	PP	V	V	V	V	Vb	NS*	NS*
Lansdale	FF	IVb	IVb	III	IV	IV	NS*	III
Laroque	FF	IVb	IVb	III	IV	IV	NS*	III
Leadvale	BB	IVb	IVb	III	IV	IV	NS*	III
Leaf (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Leaf (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Leaksville	KK	V	V	V	V	Vb	NS*	IV
Leck Kill	U	IIIb	IIIb	II	II	II	III	II
Leetonia	II	V	V	III	V	IV	NS*	NS*

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Legore	V	IVa	IVa	II	III	III	III	III
Lehew	JJ	V	V	IV	V	IV	NS*	IV
Lenoir	LL	V	V	V	V	Vb	NS*	IV
Leon	II	V	V	III	V	IV	NS*	NS*
Levy	PP	V	V	V	V	Vb	NS*	NS*
Lew	FF	IVb	IVb	III	IV	IV	NS*	III
Lewisberry	II	V	V	III	V	IV	NS*	NS*
Lewisburg	CC	IVb	IVb	II	IV	IV	NS*	III
Library	KK	V	V	V	V	Vb	NS*	IV
Lickdale (drained)	H	Ila	Ila	III	II	Vb	NS*	IV
Lickdale (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Lignum	LL	V	V	V	V	Vb	NS*	IV
Lily	FF	IVb	IVb	III	IV	IV	NS*	III
Linden	F	Ila	Ila	I	II	I	III	II
Linside	A	Ia	Ia	I	Ia	I	I	I
Litz	JJ	V	V	IV	V	IV	NS*	IV
Lloyd	N	IIb	IIb	I	II	II	II	II
Lloyd variant	N	IIb	IIb	I	II	II	II	II
Lobdell	A	Ia	Ia	I	Ia	I	I	I
Lodi	M	IIb	IIb	I	II	II	I	II
Louisa	JJ	V	V	IV	V	IV	NS*	IV
Louisa variant	JJ	V	V	IV	V	IV	NS*	IV
Louisburg	FF	IVb	IVb	III	IV	IV	NS*	III
Lowell	M	IIb	IIb	I	II	II	I	II
Lucy	DD	IVb	IVb	II	IV	III	NS*	III
Lumbee (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Lumbee (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Lumbee variant (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Lumbee variant (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Lunt	AA	IVa	IVa	II	III	Va	NS*	IV
Lynchburg	E	Ila	Ila	I	II	Va	NS*	II
Madison	X	IVa	IVa	II	III	III	III	III
Magotha	PP	V	V	V	V	Vb	NS*	NS*
Malbis	W	IVa	IVa	IV	III	IV	NS*	IV
Manassas	D	Ib	Ib	I	Ib	I	I	I
Manor	FF	IVb	IVb	III	IV	IV	NS*	III
Mantachie	I	Ila	Ila	I	II	Vb	NS*	I
Manteo	JJ	V	V	IV	V	IV	NS*	IV
Marbie	W	IVa	IVa	IV	III	IV	NS*	IV
Margo	A	Ia	Ia	I	Ia	I	I	I
Marlboro	R	IIIa	IIIa	II	II	II	III	II
Marr	T	IIIb	IIIb	II	II	II	NS*	III
Marumsco	K	IIb	IIb	I	II	II	III	I
Masada	L	IIb	IIb	I	II	II	III	II
Massanetta	A	Ia	Ia	I	Ia	I	I	I
Matapeake	R	IIIa	IIIa	II	II	II	III	II
Matneflat	CC	IVb	IVb	II	IV	IV	NS*	III
Mattamuskeet	PP	V	V	V	V	Vb	NS*	NS*
Mattan	PP	V	V	V	V	Vb	NS*	NS*
Mattapex	K	IIb	IIb	I	II	II	III	I
Mattaponi	R	IIIa	IIIa	II	II	II	III	II
Maury	M	IIb	IIb	I	II	II	I	II

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Mayodan	V	IVa	IVa	II	III	III	III	III
McGary (drained)	P	IIb	IIb	II	II	Va	NS*	III
McGary (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
McLaurin	DD	IVb	IVb	II	IV	III	NS*	III
McQueen	B	Ia	Ia	I	Ia	I	II	I
Meadowville	G	IIa	IIa	I	II	IV	II	I
Meadowville variant	G	IIa	IIa	I	II	IV	II	I
Meckesville	W	IVa	IVa	IV	III	IV	NS*	IV
Mecklenburg	V	IVa	IVa	II	III	III	III	III
Mecklenburg variant	V	IVa	IVa	II	III	III	III	III
Meggett (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Meggett (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Melvin (drained)	H	IIa	IIa	III	II	Vb	NS*	IV
Melvin (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Millrock	II	V	V	III	V	IV	NS*	NS*
Minnieville	N	IIb	IIb	I	II	II	II	II
Misenheimer	JJ	V	V	IV	V	IV	NS*	IV
Molena	II	V	V	III	V	IV	NS*	NS*
Monacan	I	IIa	IIa	I	II	Vb	NS*	I
Monongahela	W	IVa	IVa	IV	III	IV	NS*	IV
Montaldo	N	IIb	IIb	I	II	II	II	II
Montross	Q	IIIa	IIIa	II	II	II	NS*	III
Mount Lucas	J	IIb	IIb	I	II	II	NS*	I
Muckalee	MM	V	V	V	V	Vb	NS*	IV
Munden	F	IIa	IIa	I	IIa	I	III	II
Murrill	G	IIa	IIa	I	II	IV	II	I
Myatt (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Myatt (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Myatt variant (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Myatt variant (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Myersville	D	Ib	Ib	I	Ib	I	I	I
Nansemond	F	IIa	IIa	I	II	I	III	II
Nason	V	IVa	IVa	II	III	III	III	III
Nawney	PP	V	V	V	V	Vb	NS*	NS*
Neabesco	BB	IVb	IVb	III	IV	IV	NS*	III
Needmore	FF	IVb	IVb	III	IV	IV	NS*	III
Nestoria	JJ	V	V	IV	V	IV	NS*	IV
Nevarc	HH	IVb	IVb	III	IV	Vb	NS*	IV
Newark (drained)	H	IIa	IIa	III	II	Vb	NS*	IV
Newark (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Newark variant (drained)	H	IIa	IIa	III	II	Vb	NS*	IV
Newark variant (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Newbern	JJ	V	V	IV	V	IV	NS*	IV
Newflat	LL	V	V	V	V	Vb	NS*	IV
Newhan	QQ	V	V	V	V	Vb	NS*	NS*
Nicholson	BB	IVb	IVb	III	IV	IV	NS*	III
Nimmo	E	IIa	IIa	I	II	Va	NS*	II
Nixa	BB	IVb	IVb	III	IV	IV	NS*	III
Nolichucky	O	IIb	IIb	I	II	II	II	II
Nolin	A	Ia	Ia	I	Ia	I	I	I

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Norfolk	R	IIIa	IIIa	II	II	II	III	II
Oakhill	FF	IVb	IVb	III	IV	IV	NS*	III
Oaklet	Y	IVa	IVa	III	III	III	NS*	III
Oatlands	FF	IVb	IVb	III	IV	IV	NS*	III
Occoquan	DD	IVb	IVb	II	IV	III	NS*	III
Ochlockonee	II	V	V	III	V	IV	NS*	NS*
Ochlockonee variant	II	V	V	III	V	IV	NS*	NS*
Okeetee	LL	V	V	V	V	Vb	NS*	IV
Opequon	JJ	V	V	IV	V	IV	NS*	IV
Orange	KK	V	V	V	V	Vb	NS*	IV
Orangeburg	R	IIIa	IIIa	II	II	II	III	II
Orange variant	KK	V	V	V	V	Vb	NS*	IV
Orenda	KK	V	V	V	V	Vb	NS*	IV
Orrville (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Orrville (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Orrville variant (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Orrville variant (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Osier	E	IIa	IIa	I	II	Va	NS*	II
Othello (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Othello (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Pacolet	X	IVa	IVa	II	III	III	III	II
Pactolus	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Pagebrook	Y	IVa	IVa	III	III	III	NS*	III
Pamlico	PP	V	V	V	V	Vb	NS*	NS*
Pamunkey	B	Ia	Ia	I	Ia	I	II	I
Pamunkey variant	B	Ia	Ia	I	Ia	I	II	I
Panorama	U	IIIb	IIIb	II	II	II	III	II
Pantego (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Pantego (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Parker	GG	IVb	IVb	IV	IV	IV	NS*	III
Partlow	HH	IVb	IVb	III	IV	Vb	NS*	IV
Pasquotank (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Pasquotank (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Peawick	HH	IVb	IVb	III	IV	Vb	NS*	IV
Penn	FF	IVb	IVb	III	IV	IV	NS*	III
Philo (drained)	H	IIa	IIa	III	II	Vb	NS*	IV
Philo (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Pinkston	JJ	V	V	IV	V	IV	NS*	IV
Pisgah	M	IIb	IIb	I	II	II	I	II
Plummer	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Pocalla	DD	IVb	IVb	II	IV	III	NS*	III
Pocaty	PP	V	V	V	V	Vb	NS*	NS*
Pocomoke	E	IIa	IIa	I	II	Va	NS*	II
Poindexter	FF	IVb	IVb	III	IV	IV	NS*	III
Poindexter variant	FF	IVb	IVb	III	IV	IV	NS*	III
Pooler variant (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Pooler variant (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Pope	A	Ia	Ia	I	Ia	I	I	I
Poplimento	M	IIb	IIb	I	II	II	I	II
Porters	FF	IVb	IVb	III	IV	IV	NS*	III

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Portsmouth (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Portsmouth (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Pouncey	LL	V	V	V	V	Vb	NS*	IV
Pynor	GG	IVb	IVb	IV	IV	IV	NS*	III
Pungo	PP	V	V	V	V	Vb	NS*	NS*
Purcellville	D	Ib	Ib	I	Ib	I	I	I
Purdy (drained)	H	Ila	Ila	III	II	Vb	NS*	IV
Purdy (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Quantico	R	IIIa	IIIa	II	II	II	III	II
Rabun	N	IIb	IIb	I	II	II	II	II
Rains (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Rains (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Ramsey	JJ	V	V	IV	V	IV	NS*	IV
Rapidan	N	IIb	IIb	I	II	II	II	II
Rappahanock	PP	V	V	V	V	Vb	NS*	NS*
Raritan	W	IVa	IVa	IV	III	IV	NS*	IV
Rayne	U	IIIb	IIIb	II	II	II	III	II
Readington	W	IVa	IVa	IV	III	IV	NS*	IV
Reaville	JJ	V	V	IV	V	IV	NS*	IV
Remlik	DD	IVb	IVb	II	IV	III	NS*	III
Rigley	CC	IVb	IVb	II	IV	IV	NS*	III
Rion	X	IVa	IVa	II	III	III	III	II
Riverview	G	Ila	Ila	I	II	IV	II	I
Roanoke (drained)	H	Ila	Ila	III	II	Vb	NS*	IV
Roanoke (undrained)	NN	V	V	V	V	Vb	NS*	NS*
Robertsburg	LL	V	V	V	V	Vb	NS*	IV
Rohrersville	BB	IVb	IVb	III	IV	IV	NS*	III
Ross	A	Ia	Ia	I	Ia	I	I	I
Rowland	A	Ia	Ia	I	Ia	I	I	I
Rumford	DD	IVb	IVb	II	IV	III	NS*	III
Rushtown	FF	IVb	IVb	III	IV	IV	NS*	III
Ruston	S	IIIa	IIIa	II	II	II	NS*	III
Saffell	DD	IVb	IVb	II	IV	III	NS*	III
Sassafras	T	IVa	IVa	II	III	II	NS*	III
Savannah	W	IIIb	IIIb	IV	II	IV	NS*	IV
Schaffenaker	II	V	V	III	V	IV	NS*	NS*
Seabrook	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Seagate	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Sedgefield	KK	V	V	V	V	Vb	NS*	IV
Sekil	FF	IVb	IVb	III	IV	IV	NS*	III
Seneca	G	Ila	Ila	I	II	IV	II	I
Sequatchie	B	Ia	Ia	I	Ia	I	II	I
Sequoia	U	IIIb	IIIb	II	II	II	III	II
Shelocata	L	IIb	IIb	I	II	II	III	II
Shelocata variant	L	IIb	IIb	I	II	II	III	II
Shenval	O	IIb	IIb	I	II	II	II	II
Sherando	CC	IVb	IVb	II	IV	IV	NS*	III
Shouns	G	Ila	Ila	I	II	IV	II	I
Slabtown	G	Ila	Ila	I	II	IV	II	I
Slagle	K	IIb	IIb	I	II	II	III	I
Spivey	FF	IVb	IVb	III	IV	IV	NS*	III
Spotsylvania	V	IVa	IVa	II	III	III	III	III

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Spray	JJ	V	V	IV	V	IV	NS*	IV
Spriggs	JJ	V	V	IV	V	IV	NS*	IV
Stanton	LL	V	V	V	V	Vb	NS*	IV
Starr	G	IIa	IIa	I	II	IV	II	I
Starr-Dyke	O	IIb	IIb	I	II	II	II	II
Staser	A	Ia	Ia	I	Ia	I	I	I
State (ES)	T	IIIb	IIIb	II	II	II	NS*	III
State (Mainland)	B	Ia	Ia	I	Ia	I	II	I
Steinsburg	JJ	V	V	IV	V	IV	NS*	IV
Stoneville	X	IVa	IVa	II	III	III	III	III
Stough	F	IIa	IIa	I	II	I	III	II
Stumptown	FF	IVb	IVb	III	IV	IV	NS*	III
Suches	A	Ia	Ia	I	Ia	I	I	I
Sudley	D	Ib	Ib	I	Ib	I	I	I
Suffolk	T	IIIb	IIIb	II	II	II	NS*	III
Summers	GG	IVa	IVa	IV	IV	IV	NS*	III
Susquehanna	KK	V	V	V	V	Vb	NS*	IV
Sweetapple	FF	IVb	IVb	III	IV	IV	NS*	III
Swimley	M	IIb	IIb	I	II	II	I	II
Sycoline	KK	V	V	V	V	Vb	NS*	IV
Talladega	JJ	V	V	IV	V	IV	NS*	IV
Tallapoosa	JJ	V	V	IV	V	IV	NS*	IV
Tallapoosa variant	JJ	V	V	IV	V	IV	NS*	IV
Tarboro	II	V	V	III	V	IV	NS*	NS*
Tatum	X	IVa	IVa	II	III	III	III	II
Tetotum	K	IIb	IIb	I	II	II	III	I
Tetotum variant	K	IIb	IIb	I	II	II	III	I
Thurmont	L	IIb	IIb	I	II	II	III	II
Tifton	Q	IIIa	IIIa	II	II	II	NS*	III
Timberville	G	IIa	IIa	I	II	IV	II	I
Timberville variant	G	IIa	IIa	II	II	IV	II	I
Tioga	A	Ia	Ia	I	Ia	I	I	I
Toccoa	II	V	V	III	V	IV	NS*	NS*
Toddstav	HH	IVb	IVb	III	IV	Vb	NS*	IV
Tomotley (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Tomotley (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Torhunta	E	IIa	IIa	I	II	Va	NS*	II
Totier	U	IIIb	IIIb	II	II	II	III	III
Toxaway (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Toxaway (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Trappist	U	IIIb	IIIb	II	II	II	III	II
Trego	W	IVa	IVa	IV	III	IV	NS*	IV
Trenholm	KK	V	V	V	V	Vb	NS*	IV
Tuckahoe	A	Ia	Ia	I	Ia	I	I	I
Turberville	O	IIb	IIb	I	II	II	II	II
Tusquitee	G	IIa	IIa	I	II	IV	II	I
Tygart (drained)	P	IIb	IIb	II	II	Va	NS*	III
Tygart (undrained)	Z	IVa	IVa	IV	III	IV	NS*	NS*
Uchee	DD	IVb	IVb	II	IV	III	NS*	III
Unison	L	IIb	IIb	I	II	II	III	II
Unison variant	L	IIb	IIb	I	II	II	III	II

**Table 9. Soil Productivity Groupings for Various Cropping Categories**

Soil Series	Soil Mngt. Group	Corn	Grain Sorghum	Small Grains	Soybeans	Canola	Alfalfa	Tall Grass Clover Hay, Pasture
Vance	Y	IVa	IVa	III	III	III	NS*	III
Varina	Q	IIIa	IIIa	II	II	II	NS*	III
Vaucluse	Q	IIIa	IIIa	II	II	II	NS*	III
Vertrees	M	IIb	IIb	I	II	II	I	II
Wadesboro	X	IVa	IVa	II	III	III	III	III
Wagram	DD	IVb	IVb	II	IV	III	NS*	III
Wahee (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Wahee (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Wakulla	II	V	V	III	V	IV	NS*	NS*
Wallen	JJ	V	V	IV	V	IV	NS*	IV
Watauga	V	IVa	IVa	II	III	III	III	III
Wateree	FF	IVb	IVb	III	IV	IV	NS*	III
Watt	JJ	V	V	IV	V	IV	NS*	IV
Watt variant	JJ	V	V	IV	V	IV	NS*	IV
Waxpool	LL	V	V	V	V	Vb	NS*	IV
Waynesboro	L	IIb	IIb	I	II	II	III	II
Weaver	A	Ia	Ia	I	Ia	I	I	I
Webbtown	U	IVb	IVb	IV	IV	II	NS*	III
Wedowee	V	IVa	IVa	II	III	III	III	III
Weeksville (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Weeksville (undrained)	OO	V	V	V	V	Vb	NS*	NS*
Wehadkee	MM	V	V	V	V	Vb	NS*	IV
Weikert	JJ	V	V	IV	V	IV	NS*	IV
Westmoreland	U	IIIb	IIIb	II	II	II	III	II
Weston	E	IIa	IIa	I	II	Va	NS*	II
Westphalia	II	V	V	III	V	IV	NS*	NS*
Weverton	GG	IVb	IVb	IV	IV	IV	NS*	III
Wheeling	A	Ia	Ia	I	Ia	I	I	I
Whiteford	U	IIIb	IIIb	II	II	II	III	II
White Store	KK	V	V	V	V	Vb	NS*	IV
White Store variant	KK	V	V	V	V	Vb	NS*	IV
Wickham	B	Ia	Ia	I	Ia	I	II	I
Wickham variant	B	Ia	Ia	I	Ia	I	II	I
Wilkes	JJ	V	V	IV	V	IV	NS*	IV
Woodington	EE	IVb	IVb	III	IV	Vb	NS*	NS*
Woodstown	J	IIb	IIb	I	II	II	NS*	I
Worsham	HH	IVb	IVb	III	IV	Vb	NS*	IV
Worsham variant	HH	IVb	IVb	III	IV	Vb	NS*	IV
Wrightsboro	J	IIb	IIb	I	II	II	NS*	I
Wurno	JJ	V	V	IV	V	IV	NS*	IV
Yadkin	X	IVa	IVa	II	III	III	III	II
Yemassee (drained)	C	Ib	Ib	II	Ib	I	NS*	I
Yemassee (undrained)	OO	V V	V	V	Vb	NS*	NS*	
Yeopim	K	IIb	IIb	I	II	II	III	I
York	BB	IVb	IVb	III	IV	IV	NS*	III
Zion	Y	IVa	IVa	III	III	III	NS*	III
Zion variant	Y	IVa	IVa	III	III	III	NS*	III
Zoar	K	IIb	IIb	I	II	II	III	I

NS\* - Not suited

Note: Soil Productivity Groups were not developed for small acreage, high cash value crops such as tobacco, peanuts and vegetables because:

1. Practically all producers are familiar with those soils that are not suited for the production of these crops.
2. Although yield potentials will vary between soils, fertilizer costs make up a relatively small part of the cost of production. Therefore, adjusting fertilizer application rates to expected yields is not as economically important as it is for other crops.
3. The level of nitrogen application that will have a significant detrimental effect on crop quality is reached before there is a significant detrimental effect on water quality.
4. Practically all fields being used for the production of these crops have already been raised to medium or higher levels of soil fertility. Therefore, the objective in P and K fertilization of these crops is limited to maintenance of these fertility levels.

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	STANDARD WHEAT	INTENSIVE WHEAT	STANDARD BARLEY	INTENSIVE BARLEY
Abell	G	140	40	34	64	80	80	100
Abell variant	G	140	40	34	64	80	80	100
Ackwater	K	130	40	32	64	80	80	100
Acredale (drained)	C	150	45	40	56	70	70	88
Acredale (undrained)	OO	65	20	15	24	30	30	38
Aden (drained)	C	150	45	40	56	70	70	88
Aden (undrained)	OO	65	20	15	24	30	30	38
Airmont	BB	85	25	18	48	60	60	75
Alaga	II	65	20	15	48	60	60	75
Alamance	FF	85	25	18	48	60	60	75
Albano	KK	65	20	15	32	40	40	50
Albemarle	JJ	65	20	15	40	50	50	63
Aldino	W	100	35	25	40	50	50	63
Allegheny	L	130	40	32	64	80	80	100
Altavista	B	160	50	40	64	90	90	113
Alticrest	E	140	40	34	64	80	80	100
Angie	AA	100	35	25	56	70	70	88
Angie variant	AA	100	35	25	56	70	70	88
Appling	V	100	35	25	56	70	70	88
Appomattox	O	130	40	32	64	80	80	100
Arapahoe	EE	85	25	18	48	60	60	75
Arcola	U	110	40	30	56	70	70	88
Ardilla	W	100	35	25	40	50	50	63
Argent	PP	65	20	15	24	30	30	38
Ashe	JJ	65	20	15	40	50	50	63
Ashlar	FF	85	25	18	48	60	60	75
Assateague	QQ	65	20	15	24	30	30	38
Athol	M	130	40	32	64	80	80	100
Atkins	HH	85	25	18	48	60	60	75
Atlee	Q	120	40	30	56	70	70	88
Augusta (drained)	P	130	40	32	56	70	70	88
Augusta (undrained)	Z	100	35	25	40	50	50	63
Augusta variant (drained)	P	130	40	32	56	70	70	88
Augusta variant (undrained)	Z	100	35	25	40	50	50	63
Aura	T	110	40	30	56	70	70	88
Austinville	O	130	40	32	64	80	80	100
Axis	PP	65	20	15	24	30	30	38
Aycock	R	120	40	30	56	70	70	88
Ayersville	FF	85	25	18	48	60	60	75
Backbay	PP	65	20	15	24	30	30	38
Baile	HH	85	25	18	48	60	60	75
Bailegap	GG	85	25	18	40	50	50	63
Bama	R	120	40	30	56	70	70	88
Barclay	E	140	40	34	64	80	80	100
Bayboro (drained)	C	150	45	40	56	70	70	88
Bayboro (undrained)	OO	65	20	15	24	30	30	38
Belhaven	PP	65	20	15	24	30	30	38
Beltsville	BB	85	25	18	48	60	60	75
Belvoir	BB	85	25	18	48	60	60	75
Berks	JJ	65	20	15	40	50	50	63
Bermudian	A	160	50	40	64	80	80	100
Bertie	J	130	40	32	64	80	80	100
Bethera (drained)	C	150	45	40	56	70	70	88
Bethera (undrained)	OO	65	20	15	24	30	30	38
Bibb	EE	85	25	18	48	60	60	75
Biltmore	II	65	20	15	48	60	60	75
Birdsboro	L	130	40	32	64	80	80	100

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Bladen (drained)	C	150	45	40	56	70	70	88
Bladen (undrained)	OO	65	20	15	24	30	30	38
Blago	HH	85	25	18	48	60	60	75
Blairston	FF	85	25	18	48	60	60	75
Bland	Y	100	35	25	48	60	60	75
Bleakhill	J	130	40	32	64	80	80	100
Bohicket	PP	65	20	15	24	30	30	38
Bojac (ES, VA Beach, Ches.)	T	110	40	30	56	70	70	88
Bojac (Mainland, excluding VA Beach & Ches.)	DD	85	25	18	56	70	70	88
Bolling	J	130	40	32	64	80	80	100
Bolling variant	J	130	40	32	64	80	80	100
Bolton	M	130	40	32	64	80	80	100
Bonneau	DD	85	25	18	56	70	70	88
Bookwood	U	110	40	30	56	70	70	88
Bourne	BB	85	25	18	48	60	60	75
Bourne variant	BB	85	25	18	48	60	60	75
Bowmansville	I	140	40	34	64	80	80	100
Braddock	O	130	40	32	64	80	80	100
Brandywine	FF	85	25	18	48	60	60	75
Brecknock	U	110	40	30	56	70	70	88
Bremo	JJ	65	20	15	40	50	50	63
Brentsville	FF	85	25	18	48	60	60	75
Brockroad	V	100	35	25	56	70	70	88
Buchanan	BB	85	25	18	48	60	60	75
Buckhall	V	100	35	25	56	70	70	88
Buckingham	JJ	65	20	15	40	50	50	63
Bucks	U	110	40	30	56	70	70	88
Buckton	A	160	50	40	64	80	80	100
Buncombe	II	65	20	15	48	60	60	75
Burketown	BB	85	25	18	48	60	60	75
Burrowsville	BB	85	25	18	48	60	60	75
Burton	FF	85	25	18	48	60	60	75
Cahaba	R	120	40	30	56	70	70	88
Calverton	BB	85	25	18	48	60	60	75
Calvin	JJ	65	20	15	40	50	50	63
Camocca	PP	65	20	15	24	30	30	38
Caneyville	Y	100	35	25	48	60	60	75
Cape Fear (drained)	C	150	45	40	56	70	70	88
Cape Fear (undrained)	OO	65	20	15	24	30	30	38
Captina	BB	85	25	18	48	60	60	75
Carbo	Y	100	35	25	48	60	60	75
Cardiff	FF	85	25	18	48	60	60	75
Caroline	AA	100	35	25	56	70	70	88
Cartecay	I	140	40	34	64	80	80	100
Carteret	PP	65	20	15	24	30	30	38
Catasaka	JJ	65	20	15	40	50	50	63
Catharpin	X	100	35	25	56	70	70	88
Catlett	JJ	65	20	15	40	50	50	63
Catoctin	JJ	65	20	15	40	50	50	63
Catpoint	II	65	20	15	48	60	60	75
Cecil	X	100	35	25	56	70	70	88
Chagrin	A	160	50	40	64	80	80	100
Chagrin variant	A	160	50	40	64	80	80	100
Chapanoke (drained)	C	150	45	40	56	70	70	88
Chapanoke (undrained)	OO	65	20	15	24	30	30	38
Chastain	LL	65	20	15	24	30	30	38
Chatuge (drained)	C	150	45	40	56	70	70	88
Chatuge (undrained)	OO	65	20	15	24	30	30	38
Chavies	EE	85	25	18	48	60	60	75
Chavies variant	EE	85	25	18	48	60	60	75

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
			(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Chenneby	I	140	40	34	64	80	80	100
Chester	D	150	45	40	64	80	80	100
Chesterfield	V	100	35	25	56	70	70	88
Chester Loam	D	150	45	40	64	80	80	100
Chewacla	I	140	40	34	64	80	80	100
Chickahominy	LL	65	20	15	24	30	30	38
Chilhowie	JJ	65	20	15	40	50	50	63
Chincoteague	PP	65	20	15	24	30	30	38
Chipley	EE	85	25	18	48	60	60	75
Christian	AA	100	35	25	56	70	70	88
Christiana	AA	100	35	25	56	70	70	88
Clarksburg	W	100	35	25	40	50	50	63
Clarksville	GG	85	25	18	40	50	50	63
Clearbrook	JJ	65	20	15	40	50	50	63
Clifton	L	130	40	32	64	80	80	100
Clymer	U	110	40	30	56	70	70	88
Codusus	A	160	50	40	64	80	80	100
Codusus variant	A	160	50	40	64	80	80	100
Colfax	BB	85	25	18	48	60	60	75
Colfax variant	BB	85	25	18	48	60	60	75
Comus	A	160	50	40	64	80	80	100
Conetoe	DD	85	25	18	56	70	70	88
Congaree	A	160	50	40	64	80	80	100
Corolla	EE	85	25	18	48	60	60	75
Corydon	JJ	65	20	15	40	50	50	63
Cotaco	G	140	40	34	64	80	80	100
Cotaco variant	G	140	40	34	64	80	80	100
Coxville	LL	65	20	15	24	30	30	38
Craigsville	CC	85	25	18	56	70	70	88
Craven	HH	85	25	18	48	60	60	75
Creedmoor	KK	65	20	15	32	40	40	50
Creedmoor variant	KK	65	20	15	32	40	40	50
Croton	LL	65	20	15	24	30	30	38
Cullen	N	130	40	32	64	80	80	100
Culpeper	X	100	35	25	56	70	70	88
Daleville (drained)	C	150	45	40	56	70	70	88
Daleville (undrained)	OO	65	20	15	24	30	30	38
Dandridge	JJ	65	20	15	40	50	50	63
Davidson	N	130	40	32	64	80	80	100
Dawhoor	PP	65	20	15	24	30	30	38
Dawhoor variant	PP	65	20	15	24	30	30	38
Decatur	M	130	40	32	64	80	80	100
Dekalb	FF	85	25	18	48	60	60	75
Delanco	B	160	50	40	64	90	90	113
Deloss (drained)	C	150	45	40	56	70	70	88
Deloss (undrained)	OO	65	20	15	24	30	30	38
Dogue	K	130	40	32	64	80	80	100
Dorovan	PP	65	20	15	24	30	30	38
Dothan	Q	120	40	30	56	70	70	88
Dragston	E	140	40	34	64	80	80	100
Drall	FF	85	25	18	48	60	60	75
Duckston	QQ	65	20	15	24	30	30	38
Duffield	G	140	40	34	64	80	80	100
Dulles	Y	100	35	25	48	60	60	75
Dumfries	T	110	40	30	56	70	70	88
Dunbar (drained)	P	130	40	32	56	70	70	88
Dunbar (undrained)	Z	100	35	25	40	50	50	63
Dunning (drained)	H	65	20	15	24	30	30	38

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Dunning (undrained)	NN	65	20	15	24	30	30	38
Duplin	K	130	40	32	64	80	80	100
Durham	CC	85	25	18	56	70	70	88
Dyke	O	130	40	32	64	80	80	100
Edgehill	CC	85	25	18	56	70	70	88
Edgehill variant	CC	85	25	18	56	70	70	88
Edneytown	L	130	40	32	64	80	80	100
Edneyville	T	110	40	30	56	70	70	88
Edom	M	130	40	32	64	80	80	100
Elbert	LL	65	20	15	24	30	30	38
Elbert variant	LL	65	20	15	24	30	30	38
Elioak	X	100	35	25	56	70	70	88
Elk	A	160	50	40	64	80	80	100
Elkton (drained)	C	150	45	40	56	70	70	88
Elkton (undrained)	OO	65	20	15	24	30	30	38
Elliber	M	130	40	32	64	80	80	100
Elsinboro	L	130	40	32	64	80	80	100
Emory	G	140	40	34	64	80	80	100
Emporia	R	120	40	30	56	70	70	88
Endcav	Y	100	35	25	48	60	60	75
Enon	Y	100	35	25	48	60	60	75
Ernest	W	100	35	25	40	50	50	63
Eubanks	N	130	40	32	64	80	80	100
Eunola	T	110	40	30	56	70	70	88
Evansham	LL	65	20	15	24	30	30	38
Evard	L	130	40	32	64	80	80	100
Evesboro	II	65	20	15	48	60	60	75
Faceville	R	120	40	30	56	70	70	88
Fairfax	D	150	45	40	64	80	80	100
Fallsington	E	140	40	34	64	80	80	100
Fauquier	N	130	40	32	64	80	80	100
Faywood	U	110	40	30	56	70	70	88
Featherstone	PP	65	20	15	24	30	30	38
Fisherman	QQ	65	20	15	24	30	30	38
Fletcher	U	110	40	30	56	70	70	88
Fluvanna	Y	100	35	25	48	60	60	75
Forestdale	LL	65	20	15	24	30	30	38
Fork (drained)	P	130	40	32	56	70	70	88
Fork (undrained)	Z	100	35	25	40	50	50	63
Fork variant (drained)	P	130	40	32	56	70	70	88
Fork variant (undrained)	Z	100	35	25	40	50	50	63
Frankstown	U	110	40	30	56	70	70	88
Frederick	M	130	40	32	64	80	80	100
Frederick/Lodi	M	130	40	32	64	80	80	100
Freemanville	Q	120	40	30	56	70	70	88
French	A	160	50	40	64	80	80	100
Fripp	QQ	65	20	15	24	30	30	38
Gaila	FF	85	25	18	48	60	60	75
Gainesboro	FF	85	25	18	48	60	60	75
Galestown	II	65	20	15	48	60	60	75
Georgeville	X	100	35	25	56	70	70	88
Gilpin	U	110	40	30	56	70	70	88
Gilpin variant	U	110	40	30	56	70	70	88
Glenelg(BRH)	N	130	40	32	64	80	80	100
Glenelg(NV)	U	110	40	30	56	70	70	88
Glenville	W	100	35	25	40	50	50	63
Goldsboro	J	130	40	32	64	80	80	100
Goldston	JJ	65	20	15	40	50	50	63

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Goldvein	BB	85	25	18	48	60	60	75
Granville	R	120	40	30	56	70	70	88
Greendale	A	160	50	40	64	80	80	100
Grigsby	A	160	50	40	64	80	80	100
Grimsley	GG	85	25	18	40	50	50	63
Gritney	T	110	40	30	56	70	70	88
Groseclose	M	130	40	32	64	80	80	100
Grover	X	100	35	25	56	70	70	88
Guernsey	M	130	40	32	64	80	80	100
Gundy	V	100	35	25	56	70	70	88
Gunstock	V	100	35	25	56	70	70	88
Gwinnett variant	X	100	35	25	56	70	70	88
Hagerstown	M	130	40	32	64	80	80	100
Halewood	U	110	40	30	56	70	70	88
Hanceville	V	100	35	25	56	70	70	88
Hartleton	FF	85	25	18	48	60	60	75
Hartsells	CC	85	25	18	56	70	70	88
Hatboro	HH	85	25	18	48	60	60	75
Hawksbill	CC	85	25	18	56	70	70	88
Hayesville	X	100	35	25	56	70	70	88
Haymarket	KK	65	20	15	24	30	30	38
Hayter	L	130	40	32	64	80	80	100
Hazel	JJ	65	20	15	40	50	50	63
Hazleton	JJ	65	20	15	40	50	50	63
Helena	KK	65	20	15	24	30	30	38
Herndon	V	100	35	25	56	70	70	88
Hiwassee	O	130	40	32	64	80	80	100
Hiwassee variant	O	130	40	32	64	80	80	100
Hoadley	BB	85	25	18	48	60	60	75
Hollywood	LL	65	20	15	24	30	30	38
Hublersburg	M	130	40	32	64	80	80	100
Huntington	A	160	50	40	64	80	80	100
Hyde (drained)	C	150	45	40	56	70	70	88
Hyde (undrained)	OO	65	20	15	24	30	30	38
Iredell	KK	65	20	15	24	30	30	38
Iredell variant	KK	65	20	15	24	30	30	38
Iuka	F	140	40	34	64	80	80	100
Izagora	J	130	40	32	64	80	80	100
Jackland	KK	65	20	15	24	30	30	38
Jefferson	U	110	40	30	56	70	70	88
Jefferson variant	U	110	40	30	56	70	70	88
Johns (drained)	C	150	45	40	56	70	70	88
Johns (undrained)	OO	65	20	15	24	30	30	38
Johnston	PP	65	20	15	24	30	30	38
Johns variant (drained)	C	150	45	40	56	70	70	88
Johns variant (undrained)	OO	65	20	15	24	30	30	38
Kalmia	S	120	40	30	56	70	70	88
Kelly	KK	65	20	15	24	30	30	38
Kempsville	S	120	40	30	56	70	70	88
Kenansville	DD	85	25	18	56	70	70	88
Kenansville variant	DD	85	25	18	56	70	70	88
Keyport	K	130	40	32	64	80	80	100
Kinkora (drained)	C	150	45	40	56	70	70	88
Kinkora (undrained)	OO	65	20	15	24	30	30	38
Kinston (drained)	C	150	45	40	56	70	70	88
Kinston (undrained)	OO	65	20	15	24	30	30	38
Klej	EE	85	25	18	48	60	60	75
Klinesville	JJ	65	20	15	40	50	50	63

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Laidig	W	100	35	25	40	50	50	63
Lakehurst	EE	85	25	18	48	60	60	75
Lakeland	II	65	20	15	48	60	60	75
Lakin	II	65	20	15	48	60	60	75
Landisburg	W	100	35	25	40	50	50	63
Lanexa	PP	65	20	15	24	30	30	38
Lansdale	FF	85	25	18	48	60	60	75
Laroque	FF	85	25	18	48	60	60	75
Leadvale	BB	85	25	18	48	60	60	75
Leaf (drained)	C	150	45	40	56	70	70	88
Leaf (undrained)	OO	65	20	15	24	30	30	38
Leaksville	KK	65	20	15	24	30	30	38
Leck Kill	U	110	40	30	56	70	70	88
Leetonia	II	65	20	15	48	60	60	75
Legore	V	100	35	25	56	70	70	88
Lehew	JJ	65	20	15	40	50	50	63
Lenoir	LL	65	20	15	24	30	30	38
Leon	II	65	20	15	48	60	60	75
Levy	PP	65	20	15	24	30	30	38
Lew	FF	85	25	18	48	60	60	75
Lewisberry	II	65	20	15	48	60	60	75
Lewisburg	CC	85	25	18	56	70	70	88
Library	KK	65	20	15	24	30	30	38
Lickdale (drained)	H	65	20	15	24	30	30	38
Lickdale (undrained)	NN	65	20	15	24	30	30	38
Lignum	LL	65	20	15	24	30	30	38
Lily	FF	85	25	18	48	60	60	75
Linden	F	140	40	34	64	80	80	100
Linside	A	160	50	40	64	80	80	100
Litz	JJ	65	20	15	40	50	50	63
Lloyd	N	130	40	32	64	80	80	100
Lloyd variant	N	130	40	32	64	80	80	100
Lobdell	A	160	50	40	64	80	80	100
Lodi	M	130	40	32	64	80	80	100
Louisa	JJ	65	20	15	40	50	50	63
Louisa variant	JJ	65	20	15	40	50	50	63
Louisburg	FF	85	25	18	48	60	60	75
Lowell	M	130	40	32	64	80	80	100
Lucy	DD	85	25	18	56	70	70	88
Lumbee (drained)	C	150	45	40	56	70	70	88
Lumbee (undrained)	OO	65	20	15	24	30	30	38
Lumbee variant (drained)	C	150	45	40	56	70	70	88
Lumbee variant (undrained)	OO	65	20	15	24	30	30	38
Lunt	AA	100	35	25	56	70	70	88
Lynchburg	E	140	40	34	64	80	80	100
Madison	X	100	35	25	56	70	70	88
Magotha	PP	65	20	15	24	30	30	38
Malbis	W	100	35	25	40	50	50	63
Manassas	D	150	45	40	64	80	80	100
Manor	FF	85	25	18	48	60	60	75
Mantachie	I	140	40	34	64	80	80	100
Manteo	JJ	65	20	15	40	50	50	63
Marbie	W	100	35	25	40	50	50	63
Margo	A	160	50	40	64	80	80	100
Marlboro	R	120	40	30	56	70	70	88
Marr	T	110	40	30	56	70	70	88
Marumesco	K	130	40	32	64	80	80	100
Masada	L	130	40	32	64	80	80	100

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Massanetta	A	160	50	40	64	80	80	100
Matapeake	R	120	40	30	56	70	70	88
Matneflat	CC	85	25	18	56	70	70	88
Mattamuskeet	PP	65	20	15	24	30	30	38
Mattan	PP	65	20	15	24	30	30	38
Mattapex	K	130	40	32	64	80	80	100
Mattaponi	R	120	40	30	56	70	70	88
Maury	M	130	40	32	64	80	80	100
Mayodan	V	100	35	25	56	70	70	88
McGary (drained)	P	130	40	32	56	70	70	88
McGary (undrained)	Z	100	35	25	40	50	50	63
McLaurin	DD	85	25	18	56	70	70	88
McQueen	B	160	50	40	64	90	90	113
Meadowville	G	140	40	34	64	80	80	100
Meadowville variant	G	140	40	34	64	80	80	100
Meckesville	W	100	35	25	40	50	50	63
Mecklenburg	V	100	35	25	56	70	70	88
Mecklenburg variant	V	100	35	25	56	70	70	88
Meggett (drained)	C	150	45	40	56	70	70	88
Meggett (undrained)	OO	65	20	15	24	30	30	38
Melvin (drained)	H	140	40	34	48	60	60	75
Melvin (undrained)	NN	65	20	15	24	30	30	38
Millrock	II	65	20	15	48	60	60	75
Minnieville	N	130	40	32	64	80	80	100
Misenheimer	JJ	65	20	15	40	50	50	63
Molena	II	65	20	15	48	60	60	75
Monacan	I	140	40	34	64	80	80	100
Monongahela	W	100	35	25	40	50	50	63
Montalto	N	130	40	32	64	80	80	100
Montross	Q	120	40	30	56	70	70	88
Mount Lucas	J	130	40	32	64	80	80	100
Muckalee	MM	65	20	15	24	30	30	38
Munden	F	140	40	34	64	80	80	100
Murrill	G	140	40	34	64	80	80	100
Myatt (drained)	C	150	45	40	56	70	70	88
Myatt (undrained)	OO	65	20	15	24	30	30	38
Myatt variant (drained)	C	150	45	40	56	70	70	88
Myatt variant (undrained)	OO	65	20	15	24	30	30	387
Myersville	D	150	45	40	64	80	80	100
Nansemond	F	140	40	34	64	80	80	100
Nason	V	100	35	25	56	70	70	88
Nawney	PP	65	20	15	24	30	30	38
Neabesco	BB	85	25	18	48	60	60	75
Needmore	FF	85	25	18	48	60	60	75
Nestoria	JJ	65	20	15	40	50	50	63
Nevarc	HH	85	25	18	48	60	60	75
Newark (drained)	H	140	40	34	48	60	60	75
Newark (undrained)	NN	65	20	15	24	30	30	38
Newark variant (drained)	H	140	40	34	48	60	60	75
Newark variant (undrained)	NN	65	20	15	24	30	30	38
Newbern	JJ	65	20	15	40	50	50	63
Newflat	LL	65	20	15	24	30	30	38
Newhan	QQ	65	20	15	24	30	30	38
Nicholson	BB	85	25	18	48	60	60	75
Nimmo	E	140	40	34	64	80	80	100
Nixa	BB	85	25	18	48	60	60	75
Nolichucky	O	130	40	32	64	80	80	100
Nolin	A	160	50	40	64	80	80	100

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Norfolk	R	120	40	30	56	70	70	88
Oakhill	FF	85	25	18	48	60	60	75
Oaklet	Y	100	35	25	48	60	60	75
Oatlands	FF	85	25	18	48	60	60	75
Occoquan	DD	85	25	18	56	70	70	88
Ochlockonee	II	65	20	15	48	60	60	75
Ochlockonee variant	II	65	20	15	48	60	60	75
Okeetee	LL	65	20	15	24	30	30	38
Opequon	JJ	65	20	15	40	50	50	63
Orange	KK	65	20	15	24	30	30	38
Orangeburg	R	120	40	30	56	70	70	88
Orange variant	KK	65	20	15	24	30	30	38
Orenda	KK	65	20	15	24	30	30	38
Orrville (drained)	C	150	45	40	56	70	70	88
Orrville (undrained)	OO	65	20	15	24	30	30	38
Orrville variant (drained)	C	150	45	40	56	70	70	88
Orrville variant (undrained)	OO	65	20	15	24	30	30	38
Osier	E	140	40	34	64	80	80	100
Othello (drained)	C	150	45	40	56	70	70	88
Othello (undrained)	OO	65	20	15	24	30	30	38
Pacolet	X	100	35	25	56	70	70	88
Pactolus	EE	85	25	18	48	60	60	75
Pagebrook	Y	100	35	25	48	60	60	75
Pamlico	PP	65	20	15	24	30	30	38
Pamunkey	B	160	50	40	64	90	90	113
Pamunkey variant	B	160	50	40	64	90	90	113
Panorama	U	110	40	30	56	70	70	88
Pantego (drained)	C	150	45	40	56	70	70	88
Pantego (undrained)	OO	65	20	15	24	30	30	38
Parker	GG	85	25	18	40	50	50	63
Partlow	HH	85	25	18	48	60	60	75
Pasquotank (drained)	C	150	45	40	56	70	70	88
Pasquotank (undrained)	OO	65	20	15	24	30	30	38
Peawick	HH	85	25	18	48	60	60	75
Penn	FF	85	25	18	48	60	60	75
Philo (drained)	H	140	40	34	48	60	60	75
Philo (undrained)	NN	65	20	15	24	30	30	38
Pinkston	JJ	65	20	15	40	50	50	63
Pisgah	M	130	40	32	64	80	80	100
Plummer	EE	85	25	18	48	60	60	75
Pocalla	DD	85	25	18	56	70	70	88
Pocaty	PP	65	20	15	24	30	30	38
Pocomoke	E	140	40	34	64	80	80	100
Poindexter	FF	85	25	18	48	60	60	75
Poindexter variant	FF	85	25	18	48	60	60	75
Pooler variant (drained)	C	150	45	40	56	70	70	88
Pooler variant (undrained)	OO	65	20	15	24	30	30	38
Pope	A	160	50	40	64	80	80	100
Poplimento	M	130	40	32	64	80	80	100
Porters	FF	85	25	18	48	60	60	75
Portsmouth (drained)	C	150	45	40	56	70	70	88
Portsmouth (undrained)	OO	65	20	15	24	30	30	38
Pouncey	LL	65	20	15	24	30	30	38
Poynor	GG	85	25	18	40	50	50	63
Pungo	PP	65	20	15	24	30	30	38
Purcellville	D	150	45	40	64	80	80	100
Purdy (drained)	H	140	40	34	48	60	60	75
Purdy (undrained)	NN	65	20	15	24	30	30	38

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Quantico	R	120	40	30	56	70	70	88
Rabun	N	130	40	32	64	80	80	100
Rains (drained)	C	150	45	40	56	70	70	88
Rains (undrained)	OO	65	20	15	30	30	38	
Ramsey	JJ	65	20	15	40	50	50	63
Rapidan	N	130	40	32	64	80	80	100
Rappahanock	PP	65	20	15	24	30	30	38
Raritan	W	100	35	25	40	50	50	63
Rayne	U	110	40	30	56	70	70	88
Readington	W	100	35	25	40	50	50	63
Reaville	JJ	65	20	15	40	50	50	63
Remlik	DD	85	25	18	56	70	70	88
Rigley	CC	85	25	18	56	70	70	88
Rion	X	100	35	25	56	70	70	88
Riverview	G	140	40	34	64	80	80	100
Roanoke (drained)	H	140	40	34	48	60	60	75
Roanoke (undrained)	NN	65	20	15	24	30	30	38
Robertsburg	LL	65	20	15	24	30	30	38
Rohrersville	BB	85	25	18	48	60	60	75
Ross	A	160	50	40	64	80	80	100
Rowland	A	160	50	40	64	80	80	100
Rumford	DD	85	25	18	56	70	70	88
Rushtown	FF	85	25	18	48	60	60	75
Ruston	S	120	40	30	56	70	70	88
Saffell	DD	85	25	18	56	70	70	88
Sassafras	T	110	40	30	56	70	70	88
Savannah	W	100	35	25	40	50	50	63
Schaffenaker	II	65	20	15	48	60	60	75
Seabrook	EE	85	25	18	48	60	60	75
Seagate	EE	85	25	18	48	60	60	75
Sedgefield	KK	65	20	15	24	30	30	38
Sekil	FF	85	25	18	48	60	60	75
Seneca	G	140	40	34	64	80	80	100
Sequatchie	B	160	50	40	64	90	90	113
Sequoia	U	110	40	30	56	70	70	88
Shelocata	L	130	40	32	64	80	80	100
Shelocata variant	L	130	40	32	64	80	80	100
Shenval	O	130	40	32	64	80	80	100
Sherando	CC	85	25	18	56	70	70	88
Shouns	G	140	40	34	64	80	80	100
Slabtown	G	140	40	34	64	80	80	100
Slagle	K	130	40	32	64	80	80	100
Spivey	FF	85	25	18	48	60	60	75
Spotsylvania	V	100	35	25	56	70	70	88
Spray	JJ	65	20	15	40	50	50	63
Spriggs	JJ	65	20	15	40	50	50	63
Stanton	LL	65	20	15	24	30	30	38
Starr	G	140	40	34	64	80	80	100
Starr-Dyke	O	130	40	32	64	80	80	100
Staser	A	160	50	40	64	80	80	100
State (ES)	T	110	40	30	56	70	70	88
State (Mainland)	B	160	50	40	64	90	90	113
Steinsburg	JJ	65	20	15	40	50	50	63
Stoneville	X	100	35	25	56	70	70	88
Stough	F	140	40	34	64	80	80	100
Stumptown	FF	85	25	18	48	60	60	75
Suches	A	160	50	40	64	80	80	100
Sudley	D	150	45	40	64	80	80	100

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Suffolk	T	110	40	30	56	70	70	88
Summers	GG	85	25	18	40	50	50	63
Susquehanna	KK	65	20	15	24	30	30	38
Sweetapple	FF	85	25	18	48	60	60	75
Swimley	M	130	40	32	64	80	80	100
Sycoline	KK	65	20	15	24	30	30	38
Talladega	JJ	65	20	15	40	50	50	63
Tallapoosa	JJ	65	20	15	40	50	50	63
Tallapoosa variant	JJ	65	20	15	40	50	50	63
Tarboro	II	65	20	15	48	60	60	75
Tatum	X	100	35	25	56	70	70	88
Tetotum	K	130	40	32	64	80	80	100
Tetotum variant	K	130	40	32	64	80	80	100
Thurmont	L	130	40	32	64	80	80	100
Tifton	Q	120	40	30	56	70	70	88
Timberville	G	140	40	34	64	80	80	100
Timberville variant	G	140	40	34	64	80	80	100
Tioga	A	160	50	40	64	80	80	100
Toccoa	II	65	20	15	48	60	60	75
Toddstav	HH	85	25	18	48	60	60	75
Tomotley (drained)	C	150	45	40	56	70	70	88
Tomotley (undrained)	OO	65	20	15	24	30	30	38
Torhunta	E	140	40	34	64	80	80	100
Totier	U	110	40	30	56	70	70	88
Toxaway (drained)	C	150	45	40	56	70	70	88
Toxaway (undrained)	OO	65	20	15	24	30	30	38
Trappist	U	110	40	30	56	70	70	88
Trego	W	100	35	25	40	50	50	63
Trenholm	KK	65	20	15	24	30	30	38
Tuckahoe	A	160	50	40	64	80	80	100
Turbeville	O	130	40	32	64	80	80	100
Tusquitee	G	140	40	34	64	80	80	100
Tygart (drained)	P	130	40	32	56	70	70	88
Tygart (undrained)	Z	100	35	25	40	50	50	63
Uchee	DD	85	25	18	56	70	70	88
Unison	L	130	40	32	64	80	80	100
Unison variant	L	130	40	32	64	80	80	100
Vance	Y	100	35	25	48	60	60	75
Varina	Q	120	40	30	56	70	70	88
Vauluse	Q	120	40	30	56	70	70	88
Vertrees	M	130	40	32	64	80	80	100
Wadesboro	X	100	35	25	56	70	70	88
Wagram	DD	85	25	18	56	70	70	88
Wahee (drained)	C	150	45	40	56	70	70	88
Wahee (undrained)	OO	65	20	15	24	30	30	38
Wakulla	II	65	20	15	48	60	60	75
Wallen	JJ	65	20	15	40	50	50	63
Watauga	V	100	35	25	56	70	70	88
Wateree	FF	85	25	18	48	60	60	75
Watt	JJ	65	20	15	40	50	50	63
Watt variant	JJ	65	20	15	40	50	50	63
Waxpool	LL	65	20	15	24	30	30	38
Waynesboro	L	130	40	32	64	80	80	100
Weaver	A	160	50	40	64	80	80	100
Webbtown	U	110	40	30	56	70	70	88
Wedowee	V	100	35	25	56	70	70	88
Weeksville (drained)	C	150	45	40	56	70	70	88
Weeksville (undrained)	OO	65	20	15	24	30	30	38

**Table 10. Soil Yield Potentials for Various Crops**

SOIL SERIES	SOIL MANAGEMENT GROUP	CORN	(RV, High) FULL SEASON SOYBEAN	(Low) DOUBLE CROP SOYBEAN	(Low, RV) STANDARD WHEAT	(High) INTENSIVE WHEAT	(Low, RV) STANDARD BARLEY	(High) INTENSIVE BARLEY
Wehadkee	MM	65	20	15	24	30	30	38
Weikert	JJ	65	20	15	40	50	50	63
Westmoreland	U	110	40	30	56	70	70	88
Weston	E	140	40	34	64	80	80	100
Westphalia	II	65	20	15	48	60	60	75
Weverton	GG	85	25	18	40	50	40	63
Wheeling	A	160	50	40	64	80	80	100
Whiteford	U	110	40	30	56	70	70	88
White Store	KK	65	20	15	24	30	30	38
White Store variant	KK	65	20	15	24	30	30	38
Wickham	B	160	50	40	64	90	90	113
Wickham variant	B	160	50	40	64	90	90	113
Wilkes	JJ	65	20	15	40	50	50	63
Woodington	EE	85	25	18	48	60	60	75
Woodstown	J	130	40	32	64	80	80	100
Worsham	HH	85	25	18	48	60	60	75
Worsham variant	HH	85	25	18	48	60	60	75
Wrightsboro	J	130	40	32	64	80	80	100
Wurno	JJ	65	20	15	40	50	50	63
Yadkin	X	100	35	25	56	70	70	88
Yemassee (drained)	C	150	45	40	56	70	70	88
Yemassee (undrained)	OO	65	20	15	24	30	30	38
Yeopim	K	130	40	32	64	80	80	100
York	BB	85	28	18	48	60	60	75
Zion	Y	100	35	25	48	60	60	75
Zion variant	Y	100	35	25	48	60	60	75
Zoar	K	130	40	32	64	80	80	100

## **Yields Reductions**

### **Slope Classes:**

	Coastal Plain	Rest of VA
A	0-2%	0-2%
B	2-6%	2-7%
C	6-10%	7-15%
D	10-15%	15-25%
E	15-25%	25-45%
F	25+%	45+%

No yield reductions for slopes A and B

	% yield reduction conv. till	% yield reduction no till
C	12%	6%
D	20%	10%

Slopes E and F too steep for tillage

### **Erosion Classes:**

Uneroded (slight and moderate) – no yield reduction  
Eroded (severe) - 30% yield reduction

### **Coarse Fragments and Stoniness:**

Exclude group GG since coarse fragments are part of its series criteria.

1. No row crops on all stony phases.
2. Cobbly, channery, flaggy – 15% yield reduction
3. Very cobbly, very channery, very flaggy – 30% yield reduction
4. Gravelly, cherty – 10% yield reduction
5. Very gravelly, very cherty – 25% yield reduction

### **Rock Outcrop:**

1. Rocky – 10% yield reduction
2. Very rocky, extremely rocky, or all complexes with rock outcrop – no row crops
3. Karst – don't grow row crops, avoid use of pesticides, extreme caution in use of fertilizers or organic nutrient sources